SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24216	54584	A	24354	1	1201	MQPALLIVLNKVRQEARRRAR ACRIRRASGIVQFGKVRRQLAA VELRQRQTPERFVLLRGTRQQA TGQRIVKTEQRVIIITQRSFRRPG EGRRINDHFRFPAHLPSIRPIGK HQTPFGISGHHFNFFTVAIGDDI AQLDRIGANQSVLKGFNKFVV QYATDSMTSQGKGLSQGSGVA FDNEKFAYNI/SFNGHMLRILDH GUNWDNDNGTKWWTVGIRPM YKWTPIMSTVMEIGYDNVESQ RTGDKNNQYKITLAQQWQAG DSIWSRPAIRVFATYAKWDEK WRYDYTGNADNNANFGKAVP ADFNGGSFG\RGDSDEWTFGAQ MEIWGLSRASGTLVTRAWRYK TTPTRHCLLMNHYAGEAAMR WKNYLKSTQKVQLQNFANWP KYSLSTLFHFPFSKSC
24217	54585	A	24355	188	406	FIRSFDPSFVPSVLDRFFVLSTVF HSSSIFLVVIDRPSCVGEPSLF*V GGSCPTNSLYRCSGLAWYLMR SMD
24218	54586	A	24356	1	1798	
24219	54587	B	24357	1465	7841	
24220	54588	A	24358	174	3762	TLNDAMRREKCLARINRTAKS GVVMPKLVTWMNNQRVGELT KLANGAHTFKYAPEWLASRYA RPLSLSLPLQRGNITSDAVFNFF DNLLPDRTIVRDRIVKRYHAKS RQPFDLLSEIGRDSVGAVTLIPE DETQHHYESLTITDEGEFVVFV GPSGCGKSTLLRMIAGLETITTG DLFIGEKRMNDTPPAERGVGM VFQSYALYPHLSVAENMSFGH ATGLAQHKEVAEVLPSRRICWI ANRKRSPVVSVSVWRL
24221	54589	A	24359	364	845	RPLLDHGSSPRLNFLRFWYVVH AHTLMRMTEGWAGFDILRPYR WRRVIAFVVAFYFRHLIALLVV QMHFKLVKGNVDVVFTAQLID STVQLIDSTTTVTQFTHIQTQLM IQRAGTKCRKEDFRHWFVHHP WVL/MSPPSVTLYALFPDRSHR PRRDGSPDA
24222	54590	A	24360	781	1275	

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24223	54591	A	24361	1	1185	MDKFDANRRKLLALGGVALG AAILPTPAFATLSTPRPRILTLNN LHTGESIKAEFFDGRGYIQEELA KLNHFFRDYRANKIKSIDPGLF DQLYRLQGLLGTRKPSCGYVT TAPAARSYRLTSKFIAVGQKAL SSLNIIHIAAPHLEALIIGESDTK NFASHDHAILIYKLEPTTGMLR TRAYIGQHMPLYCSAMGKIYM AFGHPDYVKSYWESHQHEIQPL TRNTITELPAMFDELAHIRESGR TMDREENELGVSCIAVPVFDIH GRVPYAVSISLSTSRLKQ/PRQH RFRLRERQPAGGTPPAGTNSVT GGASLHHARCQRRK*KPYRPER A/ESFLPARGKICWP*AGTLTVC IMASASRLISGCTPDSTCWSTA HAPICRRRGRAINRCHCSS
24224	54592	A	24362	1	801	
24225	54593	A	24363	1523	1950	LLPA/AQKRRVDFLRATDFNAL MPGVVEIDGKNIYTQIIDLTTRE AVVNRPEVHRRYIDIQFLAWGE EKIGIAIDTGNNKVSESLLEQRN IIFYHDSEHESFIEMIPGSYAIFFP QDVHRPGCIMQTASEIRKIVVK VALTALN
24226	54594	A	24364	281	997	LTFARLKGITRKIGRLQSRRRKR CKAMGVDVNRVYSLDELVRG NDILFSATGVTGGELVNGIQQT ANGVRTQTLLIGGADQTPMAT LTEDDVLEQLDAQDNLF\SFMK TAHTILLQGIRQFLPSLFVDNDE EIVEYAVKPLLAQSGQIDDIDV ALRLIYALGKMDKWLYADITH FSQFWHYLNEQDETPGFADDM TWDFISNVNSITRNAMLYDALK AMKFADFSVWSEARFSGMVKT

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24227	54595	A	24365	263	1410	AMISRRRFLQATAATIATSSGFG YMHY/CLNSDAIALGIEQRPDLI LLGGDYVLFDMSLNSSAYSDV LSPLAECAPTFACFGNHDRPVG TEKNHLIGETLKSAVITGMLNQ ATVIAYANRPFELVGTGDLWS GQCKSASASETNLSRLVLAHNS CSKEVMRDEPCDLMLGSHTHR WQLSVPMAGEPFCHVADERYV LGLNAFCERHIYTIPRGGKRIPQ TFAADLPGKGITVNPVQSTITEE TFQTLLVSRALEKLGYTVNKPS EVDYNVGYTSLASGDATFTAV NWTPLHDNMYEAAGGDKKFY REGVFVNGAAQGYLIDKKTAD QYKITNIRQLEDPEIAKLVDTNG DGKADLTGCNPGLGFEGAINH QLGAYELTNTVTHN
24228	54596	B	24366	1	2872	
24229	54597	B	24367	1	1704	
24230	54598	B	24368	1	1470	
24231	54599	B	24369	1	2301	
24232	54600	B	24370	1	900	
24233	54601	B	24371	26	856	
24234	54602	B	24372	1	1743	
24235	54603	B	24373	1	1410	
24236	54604	B	24374	1	957	
24237	54605	B	24375	1	2742	
24238	54606	B	24376	755	1816	
24239	54607	B	24377	1	1968	
24240	54608	B	24378	926	6441	

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24241	54609	A	24379	1	1739	MTWTHEAVNRREPLRGCEPNW DVDVKPAGCMISRRNELPYTLG LRIDMLVDLGTPASLMGQSSVY NTTDRHSTHRMDGLEQLMQQA DFAADIAVVAPWDNWSPTAGR FGLIRLLDEQTAPYAWYTSPMH LMDEKCSCHRQRPVIGLNQPQ YQSGTIEVDNVSFAYRDDVLVL KNINLSVPSRNFVALVGHTGSG KSTLASLLMGYYPLTEGEIRLD GRPLSSLSHSALRQGVAMVQQ DPVVLADTFLANVTLGRDISEE RVWQALETVQLAELARSMSDG IYTPLGEQGNNLSVGQKQLLAL ARVLVETPQILILDEATASIDSG TEQAIQHALRRDCSPLIDHCDA DTILVLHRGQAVEQGTHQQLL AAQGRYWQMYQLQLAGEELA ASVQPLPNSDRRGSMKLVTVII KPFKLEDVREALSSIGIQGLTVT EVKGFGRQKGHAELYRGAEYS VNFLPKAAYTGKIGDG/KIFVAE LQRVIRIRTGEADEAALYLWHT ATERDGPFRNFTAGAFRASLPH PARHGRRPILAAPFMPVNPSRLP PRRRHLASGRSLRFNCCTAGDE TCSARSGERRSLVF
24242	54610	A	24380	547	684	

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24243	54611	A	24381	1	2208	MLLVSASVNAMSISGQAGKEY TNIGVGFGTETTGLALSGNWTH NDDDGDVAGVGLGLNLPLGPL MATVGGKGVYTNPNYGDEGY AAAVGGGLQWKIGNSFRLFGE YYYSPDSLSSGIQSYEEANAGA RYTICVQVFVVVMLIRNQLFTP VNTAIDGFATNYAIMPAYAVG EGVATHGLQFELMRTTGGNTQ HVFHHPLPLFAMWRYAAEMFP YQQMCQFVRYHFFNKSFTVFQ QQNGIEANFIAFQPGRSGGGSA LGRNVFGFRYQPQCQQDKQYV QSRIHPEGVGVTQRVEHGQERC ANDHVQSSGTELMQEGVMSAS LKNQQGFSLPEVMLAMVLMV MIVTALSGFQRTLMNSLASRNQ YQQLWRHGWQQTQLRAISPPA NWQSGAAMLRVYHSNRLDVL EALMEFIVERERLDDPFEPEMIL VQSTGMAQWLQMTLSQKFGIA ANIDFPLPASFIWDMFVRVLPEI PKESAFNKQSMSWKLMTLLPQ LLEREDFTLLRHYLTDDSDKRK LFQLSSKAADLFDQYLVYRPD WLAQWETGHLVEGLGEAQAW QAPLWKALVEYTHQLGQPRW HRANLYQRFIETLESATTCPPG YLRASLYAAIQHALASVREHTT LVVIAHRLSTIVDADTILVLHRG QAVEQGTHQQLLAAQGRYWQ MYQLQLAGEELAASKGHAELY
24244	54612	A	24382	2	729	DCSPLIDHCDADTILVLHRGQA VEQGTHQQLLAAQGRYWQMY QLQLAGEELAASVQPLPNSDRR GSMKLVTVIIKPFKLEDVREAL SSIGIQGLTVTEVKGFGRQKGH AELYRGAEYSVNFLPKAAYTG KIGDG/KIFVAELQRVIRIRTGEA DEAALYLWHTATERDGPFRNF TAGAFRASLPHPARHGRRPILA APFMPVNPSRLPPRRRHLASGR SLRFNCCTAGDETCSARSGERR
24245	54613	A	24383	683	1161	RTGHCH/SAFSFSTVLTSCSLSRF SFLAHRLQYLLRVAEPLPNSDR RGSMKLVTVIIKPFKLEDVREA LSSIGIQGLTVTEVKGFGRQKG HAELYRGAEYSVNFLPKVKIDV AIADDQLDEVIDIVSKAAYTGKI GDGKIFVAELQRVIRIRTGEADE

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24246	54614	A	24384	631	1149	FFGIKEQVITANNANSNRNKTD RCCRNWLEDHADNHCHKHSEV MPCLRRHTVGDRDKKHDTHH HQWGQ*FPYIIFWLVSPLIAISRS KVSTHGLRQRDFILLREASQSF RFVLRVYDVADHIAGKFTVHD LQFIGYHGGQAQLVAQVFSKES KAAGGNRHFPAQRFQLEHQLR
24247	54615	A	24385	833	1264	
24248	54616	A	24386	1	1632	
24249	54617	A	24387	2078	2371	
24250	54618	A	24388	1	159	
24251	54619	A	24389	530	811	RPGTGTAAQVLNRRIKISRST*L TVVMGYWSIIPSVSLLKWDRR KSPKCSSALRVNISNTLLSTARR RKRYLIVIPALLVVRRCRPRGPS ACG
24252	54620	A	24390	1806	2115	AAFQEIELAFQDPQCVGLLTAP MLMPLFLDQLILQCFFW/W/TN LERA*TSFSALFIDLQPPGYRTT TSKHKVSSSLIKGHVLLDHSFH DLNTQLWISTNAFRFGN
24253	54621	A	24391	1476	1751	ALLLVSFASQRFISA/TVGNQNA GVDLLNLTLLVGGIFVLNNAGN FAVFTGDTSITGRIIQFHRQQTN ATLRFSITQTLECFDRDQRHVA VEH
24254	54622	A	24392	606	4519	EEVVRAISAKRNEPEWMLEFRL NAYRAWLEMEEPHWLKAHYD KLNYQDYSYYSAPSCGNCDDT CASEPGAVQQTGANAFLSKEV EAAFEQLGVPVREGKEVAVDAI FDSVSVATTYREKLAEQGIIFCS FGEAIHDHPELVRKYLGTVVPG NDNFFAALNAAVASDGTFIYVP KGVRCPMELSTYFRINAEKTGQ FERTILVADEDSYAAKRLTDYP HQLSGGERQRVMIAMALLTRP ELLIADEPTTALDVSVQ
24255	54623	A	24393	129	256	

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24256	54624	A	24394	1	1082	MAMSKVKSITRESWILSTFPEW GSWLNEEIEQEQVAPGTFAMW WLGCTGIWLKSEGGTNVCVDF WCGTGKQSHGNPLMKQGHQM QRMAGVKKLQPNLRTTPFVLD PFAIRQIDAVLATHDHNDHIDV NVAAAVMQNCADDVPFIGPKT CVDSWIGWGVPKERCIVVKPG DVVQVTALEIHAPDAFDRTAPI TWLADQKRRRTVKGRTTRPCN RSVTVRPRRRDAVIGRFYRHQS ITQKGLLLMVMPGCAFPLWIDS ELNLTFIDALFEGVSGITTTGAT VIDDVSSLPRAYLYYRSQLNFIG GLGVIVLAVAVLPLLGIGGAKL YQSEMP/AAI*G*QTHSPPGRYV TDTVDNLFFIRCRT
24257	54625	A	24395	49	281	ASDHRYLCSQSVPLRGIPACYL LQAPLTRWR/RIPPSRRICAAIDS AISRSPQRWLTAVCCGTVNFTN TCLLPDGVCA
24258	54626	A	24396	737	1419	CIWRMYSHRLVAWRRCVKRR/ RYLTRFAKTRGVAIVMVGHVT KDGSLAGPKVLEHCIDCSVLLD GDADSRFRTLRSHKNRFGAVN ELGVFAMTEQGLREVSNPRGR GKRKFISPKKTPALAKFRRNLL PPKVPGNGTSVRFRHSRICWMN PLPGAAWNCILTLKKPISPGVQ VFPESFTPARLEAFAGRSQACL VPAQNILHQKSQAWLFDFPEQE KELRELSAWMAGA
24259	54627	A	24397	526	1693	STTGIRSIAMSNPILSWRRVRA\ LCVKETRQIVRDPSSWLIAVVIP LLLLFIFGYGINLDSSKLRVGIFL EQRSEAALDF\THTMTGSPYIDA TISDNRQELIAKMQAGKIRGLV VIPVDFAEQMERANATAPIQVI TDGSEPNTANFVQGYVEGIWQI WQMQRAEDNGQTFEPLIDVQT RYWFNPAAISQHFIIPGAVTIIM TVIGAILTSLVVAREWERGTME ALLSTEITRT\ELLLCKLIP\YYF\ LGMLAM\LLCM\LVSVFILGVP YRGSVLILFFISSLFLLSTLGMG LLISTITRNQFNAAQVALNAAF LPSIMLSGFIFQIDSMPAVIRAVT YIIPARYFVSTLQSLFLAGNIPV VLVVNVLFLIASAVMFIGLTWL KTKRRLD

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24260	54628	A	24398	655	915	IAVNVTLAFNGGKQLR*STSLL CCQEGLAFAVNLRQHFRVQTIS FFFLPVLRFWRPGIQQAKKCHP APRTAKGIPQQVIRAMRLLFK
24261	54629	A	24399	549	827	
24262	54630	A	24400	472	626	WRFFRPRKDNIRRTLFADGHQI AAQPGLNLSCTRTIF*IKRINTFP GRWRK
24263	54631	A	24401	333	617	SDQSETDYRFADGERHLENQPH AGQTGRGGAGPGCTLYQRFAQ LCEVSEVERSGCRTLSAQHVEQ NLPAAICGGDDADGAVVHLWT TA*RTRIGTLRSGPKMNDSAISII TATDSGWKILLHMLS
24264	54632	A	24402	74	265	
24265	54633	A	24403	1	1005	
24266	54634	A	24404	1068	1185	SVAIRQASTGNRCQCLCPACA WA*VNADVK*SARVSRL
24267	54635	A	24405	1	2292	
24268	54636	A	24406	720	2496	RRAGYRKAADAMTTIVPEKLS REVGSHFHALDRTTAVHRQPVI SATTTVHEFLRCHQFPLVVCDG GRMTPRAMFLFSSAHILMPLNY HNSHINTLFPVAGTLMVEPTES ESKVELDRFIDAMLAIRAEIDQ VKAGVWPLEDNPLVNAPHIQS ELVAEWAHPYSREVAVFPAAL VTGGSRGIGRATALLLAQEGYT VAVNYQQNLHAAQEVMNLITQ AGGKAFVLQADISDENQVVAM FTAIDQHDEPLAALVNNAGILF TQCTVENLTAERINRVLSTNVT GYFLCCREAVKRMALKNGGSG GAIVNVSSVASRLGSPGEYVDY AASKGAIDTLTTGLSLEVAAQG IRVNCVRPGFIYTEMHASGGEA\ GRVDRVKSNIPMQRGGQAEEF AVQTFPVWRVAQHCAVRPFRQ RIGQLRDIFHLKGDQFTNPRKT GVTPQPPCSTYPDPSPPPVPAAG HIDRPALAPTFTPPIMCSKATVK PLSPSPPGTPDPASVLPFREQRA AVHRLRTVVTRHLLALRRDPF ANRHRQQDQRNGGFHHRQRHL HTGKTRSLHHHQFAALRQHPK TKQRRKQSRHREEDLHIFRHAQ
24269	54637	C	24407	49	186	
24270	54638	A	24408	470	811	
24271	54639	A	24409	1	1006	
24272	54640	B	24410	1	2793	

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24273	54641	A	24411	463	1258	CCRSSWCNSDSETGLQIVASYF EDRNGDS\LALRPEGTAGCVRA GIEHGLLYNQEQRLWYIGPMFR HERPQKGRYRQFHQLGCEVFG LQGPDIDAELIMLTARW\WRAL GISEHVTLELNSIGSLEARANYR DALVAFLEQHKEKLDEDCKRR MYTNPLRVLDSKNPEVQALLN DAPALGDYLDEESREHFAGLC KLLESAGIAYTVNQRLLNYRLS ANLIENNLSLFDGEGIYRFYHPK PTKNAERENRQCRNDLFFRCGF
24274	54642	A	24412	221	832	TMAENQSTVENAKEKLDRWLK DGITTPGGKLPSERELGELLGIK RMTLRQALLNLEAESKIFRKDR KGWFVTHPRFNYSPELSASFQR AAIEQGREPF\WGFTEKNRTSDI PETLAPLIAVTPSTELYRITGWG ALEGHKVFYHETYINPEVAPGF IEQLENHSFSAVWEKCYQKEPV VKKLIFKPVRMPGDISKYLGGS AGMP
24275	54643	A	24413	158	481	
24276	54644	A	24414	2201	2350	
24277	54645	A	24415	621	1830	AGWKRGGAGEPDQGLQA\EME VLENLQELKDLNQRQAHAESKI FRKDRKGWFVTQPRFNYSPELS ASFQRAAIEQGREPSWGFTEKN RTSDIPETLAPLIAVTPSTELYRI TGWGALEGHKVFYHETYINPE VAPGFIEQLENHSFSAVWEKCY QKETVVKKLIFKPVRMPGDISK YLGGSAGMPAILIEKHRADQQG NIVQIDIEYWRFEAVDLIINLCF MVTINNARKILQRVDTLPLYLH AYAFHLNMRLERVLPADLLDIA SENNLRGVKIIIVLDGERFSLGN MDDKELSAFGDKARRLNLDIHI ETSASDKASIDEAVAIALKTGA SSVRFYPRYESNLRDVLSIIAND IAYVRETYQDSRLTFNIEWGKS SCCSPYVHPWAKLAAIYYRLQP HINDAF
24278	54646	A	24416	83	502	
24279	54647	A	24417	15	95	
24280	54648	A	24418	500	786	LTQRFGTVPLLLQ\AYLYSAFFF TPEFLRPAPPLFSAAVLPEQRQR AQGIGGLVIRPTVELHQALQLF FGHQPKIQSLHALLRGSTGFQA SFRLPL

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24281	54649	A	24419	1	2914	MYYSHASCVADQYACGMHRT PSRTGRPRIHAPRQARLKPQVK VASKKRNARDKMQPPNEQQKT RAHACTPSSRFRAVVRTLTCPV VANVTRIFPRYFSNTRVLRRRR KQARGTWWRLRHLHLYVQPH KHTSYYIYRLYRVTYVMSAQV VDTGIYEFTTRKHDIGTIELPNS EIRYHGNPAMSRPRKTPTPPNSP ASERATGPTTLLPPIRQRRYAA RHTSTIAYTNSTSDIFEAPYNKA APIMRYTSVYCSLFSP
24282	54650	A	24420	2	420	CPYPENRWRGKILARPLLFRAA *ASRFAGAGMPGRLIPTVRPRN SNSGRLVSASRCAKESLTVTTC TPLPGSAVREASN
24283	54651	A	24421	212	497	
24284	54652	A	24422	1	1149	
24285	54653	A	24423	535	589	
24286	54654	A	24424	1	1458	MFDPETLRTFIAVAETGSFSKA AERLCKTTATISYRIKLLEENTG VALFFRTTRSVTLTAVGEHLLS QARDWLSWLESMPERAATVW MFVPTPLSVASGLQRIGRAGHQ VGGVSKGLFFPRTRRDLVDSAV IVECMFAGRLENLTPPHNPLDV LAQQTVAAAAMDALQVDEWY SRVRRAAPWKDLPRRVFDATL DMLSGRYPSGDFSAFRPKLVW NRETGILTARPAAFAADSDIAD GQTQRFDFSILQSMAHDLSQTA WR/GIQYDAEKSLWHNVE\NRQ LDAQFFHMGMGFRRRVRMFSV DPATHLAREIHFRPELFKYNDA GVDTKQLEGQSDLGFAGFRVF KAPELARRDVVSFLGASYFRAV DDTYQYGLSARGLAIDTYTDSK EEFPDFTAFWFDTVKPGATTFT VYALLDSASITGAYKFTIHCEKS QVIMDVENHLYARKDIKQLGIA PMTSMFMPRKNASRLSKRCYDI RERDGREERK
24287	54655	A	24425	157	650	PIRASTCLFKPLITQCFRQFGSE GVNDHLLGILLIDPARAQIEYLF IINTPHRRAVAAFHIICIDFQLRF RIHFRQFAHQQIVVGHLTIRFDG VLRDVDQTVKYRAAFVADDSF VQLSAVTKTFIVFQPGTGITHLV FHRHRQAQ*PFKVPFSRRLRNGI HTHC
24288	54656	A	24426	269	2024	

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24289	54657	A	24427	1	3548	MPRSNYFSERCKGEIFLKFENM QRTGSFKIRGAFNKLSSLTDAE KRKGVVACSAGNHAQGVSLSC AMLGIDGKVVMPKGAPKSKVA ATCDYSAEVVLHGDNFNDTIA KVSEIVEMEARIFIPPYDDPKVI AGQGTIGLEIMEDLYDVDNVIV PIGGGGLIAGIAVAIKSINPTIRVI GVQSENVHGMAASFHSGEITTH RTTGTLADGCDVSRPGNLTYEI VRELVDDIVLVSEDEIRNSMIAL IQRNKVVTEGA
24290	54658	B	24428	1	2691	
24291	54659	A	24429	2174	3315	NLPKPDWARSAPHPASANYKS NTRRLPFAREQ/QDQHTLLAGT LFIAKILIPMQIAQSAAYRRRCP DAQLHFLPLQLAPRGHRYKRV CQVRYPPIIALIPVVFRLMNDAN GLSQPADAGLAHHEMRNFLDF ASSNVAASRRRCVAALPCATG KGRQANEQAENKCSKDPQTHR TDNKETKTPPARPTTTTQPHTK EEEPLSTPTQTKHPPTHVTGTGP HPTPASGQTEKHERKRPTQQKS NARQNSKDKRTPNKSKTTKPN RGYNQHPAGEPTMSTHEKVKP HQQNRKIQAPPKRQKTDHRHT HNTHPHPPHRAASTTTQAAPPP RRATRSGTSATAHNNTEPHGTR HTQPGDHKRAEEHDRTADEPT PPEHTLPSHTQLGP
24292	54660	A	24430	1	2925	
24293	54661	A	24431	341	689	RPLAFRQRCTFYWR\PGSANCR LV*GASGTDPRLYSPCAAAADD CGRRQNAGRRRRATSGD*SPHR RWENALLFDSRHRHCPRRAKN AGGEYRQRGIAGSDLQQRFTA AEKDHSRS

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24294	54662	A	24432	1	1931	MGTLLGTLTVLTLVAEELPAET DVAADPAASPTCTAVNQTIGRA IVAADFFIIFQLWQNTVRQLVT HFKPHGQSEMSDTPELINRARY LTYLYCRQPAKAIRELSEQELA WKKQATHEYQVLVTRCKQTL HQVEPLREIEPGRKRLVFDENL RPKQNPIPHLLDTCWPLTVDEH ANRSSIGNNNISFVVNRAVVTN VLNTMRTACNSQATIQIYNADI ARDFGTRGIFSINSGFSTVIRGG VVTVDLSAGAAIGDSALAFVID DGLVAVNLDTDGLRIGDGHGA LVIHRCAVAGDINTVTAAADM DLEDPRIISARFGVPRTQVRTW VALYEKHGEKGLIPKPKGVSAD PECVLGRESCDRAAHVPYQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQVR FLETRLMYLKKLKALAHPTKK AAEIPRSTFYYHLKALSKPDKY ADVKKRISEIYHENRARYGYRR VTLSLHREGKQINHKAVQRLM GPSHLKQRLRSSDTALTEERDF KATRPNEKWVTDVTEFAVNGR KLYLSPVIDLFNNEVISYSLSER PVMNMRRSRPGVGYFYALTPV YLANRLQALLGVEQ/HHPDGEL FLTGYVADGGYHS
24295	54663	A	24433	3	158	
24296	54664	A	24434	1	3432	

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24297	54665	A	24435	1298	2649	TFITRPTSNGTSIFKLMNRRRLE GGNVATLR/RLTIGMIFQDHHL LMDRTVYDNVAIPLIIAGASGD DIRRRVSAALDKVGLLDKAKN FPIQLSGGEQQRVGIARAVVNK PAVLLADEPTGNLDDALSEGIL RLFEEFNRVGVTVLMATHDINL ISRRSYRMLTLSDGHLHGGFGG RLDRFRKSVGGSGDGGRNAPK RAKSSPKPVNRKTNVFNEQVR YAFHGALQDLKSKPFATFLTV MVIAISLTLPSVCYMVYKNVNQ AATQYYPSPQITVYLQKTLDDD AAAGDPDRPSLQLRWRVIPGFS IAVAIYFLNESLGRPLMITGYSA ECSLLAWPVRSGLRKAPMKTFP LQSLTIIEAQQKQFALVDSICRH FPGSEFLTGGDLGLTPATELKPR RLPSGVEQVLADAFHAQAAAL VQGAGTGAIRAGLAALLKPGQ RLLVHDAPVYPTTR
24298	54666	A	24436	546	707	
24299	54667	A	24437	428	1464	RNSRSLAEISRLRGQTRSGLPM LLNLQSMGAS/WYLSPVIDLFN NEVISYSLSERPVMNMDHHLL MDRTVYDNVAIPLIIAGASGDD IRRRVSAALDKVGLLDKAKNFP IQLSGACWHCRAVVNKPAVLL ADEPTGNLDDALSEGILRLFEEF NRVGVTVLMATHDINLISRRSY RMLTLSDGHLHGGFGGRLDRF RKSVGGSGDGGRNAPKRAKSS PKPVNRKTNVFNEQVRYAFHG ALQDLKSKPFATFLTVMVIAISL TLPTSCYMVYNIAKSERISDIST QLNAFPGCEVAVSDAPSGQLIV VVEAEDSETLIQTIESVRNVEGV LAVSLVYHQQEEQGEETP
24300	54668	A	24438	1	429	
24301	54669	A	24439	307	424	
24302	54670	A	24440	300	468	
24303	54671	A	24441	946	1558	KGCVSIPFFSFSWAVMSNLTYL QGYPEQLLSQVRTLINEQRLGD VLAKRYPGTHDYATDKALWQ YTQDLKNQFLRNAPPINKVMY DNKIHVLKNALGLHTAVSRVQ GGKLKAKVE\IRVATVFRNAPE PFLRMIVVHELAHLKEKEHNK AFYQLCCHMEPQYHQLEFDTR LCNRIRLNGHDHFRRRYALFRV NTGRTASPVIQP

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24304	54672	A	24442	1	774	
24305	54673	A	24443	1	452	MELKKLMEHISIIPDYRQAWKV EHKLSDILLLTICAVISGAEGWE DIEDFGETHPDFLKQYGDFENG IPVHDTIARVVSCICPAKFHESFI NWMLDYHSSDDKD/DHRN*W KNTPAFL*QESP*GSDSCH*CVL NNAQSGHRTDQDG*EIQ
24306	54674	A	24444	486	572	
24307	54675	A	24445	1	683	MHSLVIGQIKTDKKSNEITAIPE LLNMLDIKGKIIKTDAMGCQKD IAEKIQKQGGAVMNLQRFDDST LIRIFALHELHRLKEHGLTRGAL LDYHSRYKLVFL\AIPQPESRK LGPF\VADIHQWQNLDDYSPQY RQRVVVLLSHPANARDHTNVL MHVQGYFRPHIDSTERQQLRAL IDSYRRGEQPLLAPLMRIKHYM ALYPDAWLSGQRYFELWPRVI NLRHSGVL
24308	54676	A	24446	896	1066	WRLSPSSR*LMPKVPRIQAYFT T*YCS*VIQRSPC*FHCYSRSIPW AWGAGKQSLT
24309	54677	A	24447	1	3660	
24310	54678	A	24448	1	1530	
24311	54679	A	24449	1	1890	
24312	54680	A	24450	746	1872	KHWRGSLISLSTPARFNGGPFW GANQGGDPKGRGGSQRALFRR KNNRGGETVSGAEDACIVNNN AAAVLLMLAATASGKEVVVSR GELVEIGGAFRIPDVMRQAGCT LHEVGTTNRTHANDYRQAVNE NTALLMKVHTSNYSIQGFTKAI DEAELVALGKELDVPVVTDLG SGSLVDLSQYGLPKEP\MPHELI AAGVSLVSFSGDKLLGGPQAGI IVGKKEMIARLQSIPLKRALRA DKMTLAALEATLRLYLHPEALS EKLPTLRLLTRSAEVIQIQAQRL QDPLAAHYGAEFAVQVMPCLS QIGSGSLPVDRLPSAALTYTPH DGRGSQLESLADRWRELPVPVI GRIYDERLWLDLRCLEDEQRFL
24313	54681	A	24451	1358	1419	

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24314	54682	A	24452	1	1568	MKGRNIDAQEIQKRYGMVGDP VIIGVVLGLIFGLAAGEGFKGC ASLMITVAAIMVLFPRMIRLIVE GLLPISDGARKFFQKYFKGREV YIGLDTAVTLGHPTTIAVGLLLI PIMLILASILPGNKVLPLADLPV APFFICMATVIHRGDLVRTLISG VIVMITVLLIATQFAPYFTEMAL KGGFSFAGESAQISALSVGNMF GWSISELMSLGIIGRVVAVGIVA SVVLFLRVLSMSWLKEVIGTEK AVIAMCHLRALPGDPSFDAQLG MNWVIDKAWDDLMALQNGG VDAVMFSNEFSLPYLTKVRPET TAAMARIIGQLMSDIRIPFGVNV LWDPVASFDLAMATGAKFIREI FTGAYASDFGVWDTNVGETIR HQHRIGAGEVKTLFNIVPEAAV YLGNRDICSIAKSTVFNNHPDA LCVSGLTAGTRTDSALLKRVKE TVPDT\VVLANTGVCLENVEEQ LSIADGCVTATTFKKDGVFANF VDQARSNNPSAIPAAFVKSIDG DRYQINPNRHGVNDG
24315	54683	B	24453	1	3352	
24316	54684	B	24454	60	2284	
24317	54685	B	24455	1	2475	
24318	54686	B	24456	1	2890	
24319	54687	A	24457	1065	1139	
24320	54688	A	24458	282	615	
24321	54689	A	24459	2657	2919	
24322	54690	A	24460	1	835	
24323	54691	A	24461	167	338	
24324	54692	A	24462	834	1515	LRWCSMPCCRWSKDRAAPSPA YSRLSSHVIIAGYVGGGVARG\ HSWVFVALTLVLTAVLFSLAGL LNGVFAKTFDDISLVPTFVLTPL TYLGGVFYSLTLLPPFWQGLSH LNPIVYMISGFRYGFPWLNHNR PGVAVDINRLLLPRKQEKLGIK LDKDQLIAGVQDAFADKSKLS DQEIEQTLQAFEARVKSSAQAK MEKDAADNEAKGKEYREKFR QIPSVSSCQKQ
24325	54693	A	24463	3	557	
24326	54694	A	24464	255	693	
24327	54695	A	24465	3	242	QKAPVLANQRQPRRPTGALLLE /SLPLVAESSDG*EPMTNATEPH SRPLP

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24328	54696	A	24466	1	2636	MKNIIRTPETHPLTWRLRDDKQ PVWLDEYRSKNGYEGARKALT GLSPDEIVNQVKDAGLKGRGG AGFSTGRKWILMPKDESMNIRY LLCNADEMEPGTYKDRLLMEQ LPHLLVEGMLISAFALKAYRGY IFLRGEYIEAAVNLRRAIAETTE AGLLGKNIMGTGFDFELFVHTG AGRYICGEETPPLLKPQTGVWQ RHSCWKLQELAMNDRDFMRY SRQILLDDIALDGQQKLLDSQV LIIGLGGLGTPAALYLA
24329	54697	A	24467	506	673	
24330	54698	C	24468	1	3411	
24331	54699	A	24469	2455	2694	
24332	54700	A	24470	1	1081	MGGLRDPWLHKLRSLWGLCR YGHKEQYDHIRIELNLAPGDTT LVPTGLAIHIADPSLAAMMLPR SGLGHKHGIVLGNLVGLIDSDY QGQLMISVWNRGQDSFTIQPGE RIAQMIFVPVVQAEFNLVEDFD ATDRGEGGFGHSGRVFCNMAE KQTAKRNRREEILQSLALMLES SDGSQRITTAKLAASVGVSEAA LYRHFPSKTRMFDSLIEFIEDSLI TRINLILKDEKDTTARLRLIVLL LLGFGERNPGLTRILTGHALMF EQDRLQGRINQLFERIEAQLRQ VLREKRMREGEGYTTDETLLA SQILAFCEGMLSRFVRSEFKYRP TDDFDARWPLIAA\SCSNMTPD
24333	54701	A	24471	93	475	RCKCADAATRGKSRRDLPDVQ NSARQYG/WI/GCATHARSG*HI VEAVQSG/TPPQPLRPRGTSRKV STDRYWRAASQLPAQYQDLTSI YDVYTVPDRVAKRAFKSPPDD GPVMWRMGHQPHLIPRNVLAQ
24334	54702	A	24472	254	1150	RFLTCRYGPGMAEDMQSLVGG TVTRSG*LSVVVNNNGE/LLAK ELSVQVGIRPEYLDRLLHAFSG GQRQRIAIARALSSQPDVIVLDE PTSALDISVQAQILNLLVTLQEN HGLTYVLISHNVSVIRHMSDRV AVMYLGQIVELGDAQQEIAQA LRRTPAPMVYIGNLGRELSLPA ANLKLESKLAIMEQYVGKKVID AVIVGPKVDVSAVKERIVIQEV LEASDIPYRHDRQLLHNALEKA LQALGGLEVIQLYRRDSNLVPG QLLKTSEMGKTRLYAADSRLIA AKGSPIQPTLDSLK

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24335	54703	A	24473	1874	2927	KEDQVKGGMVCPKKLLCQGTR *RGGVVGGISQASVTSVIGYSA SCQPTPAIMQLHL/ANAASRRL QPDRNRPNPGWHRPPIHAFTTP GLVSVSFLGYPCSTPTCLPFSES SVGESVNLWPQSNENLRRTLV GEGNLLLTFIGNGKHEIIASIFFA FSEGISAQSHWQPRYISPASVCT LVTEIDIKANKITFSIFDENAGA WLPPFCKAVVPGWVYKPNLGH EIACVDHWLMPNRLIENLCDIM LPIWVLTKFNDCCAGCVPCCVII VDDALHGAPKRMCCCITRGMR LLKLSVIHAATRSTLQQASHGH CAWSAPGWLDTSGMDGDRLW WTLHEVLRDLCTSHGNIVESAR
24336	54704	B	24474	1	672	
24337	54705	B	24475	1	2496	
24338	54706	A	24476	3260	3363	RPDSGGP*RQRRYLRCADHRRR AVRNQQQLTACA
24339	54707	A	24477	112	224	
24340	54708	A	24478	1614	2326	CTYSRKCRPDKRSASGNFALSS LKSSPLTKNRRYWKVSPTHLLL SKRPKISLNAYFGACSLVRPVL AAASDWTLQGAWSPTRAKALP ICESWRIPYADSLSSLAASCDAV FVHSSTASHFDVVSTLLNAGVH ICVDKPLAENLRDAERLVEG\M REWREERGQGVVHKPIPGWQS TLEQRGFVGCARHFIECVQNQT VPQTAGEQAVLAQRIVDKICSS FNVVRVAPLGDPIQSKPVV
24341	54709	A	24479	19	885	
24342	54710	B	24480	1	1704	
24343	54711	A	24481	974	1156	

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24344	54712	A	24482	162	1602	HRRKRARGTPKATTTRKPARTI ETLSPLLAILAFAPKLAICTRSPL L/DDMTPFTQCTNAYSHSGIRNP TAISSAAYPRRITGY/KLGPTGE ERTVYGIYGISESNLAECEKGV KSAVALTPALQPIDGVAVSYID AAVALGNTINEMDKYYTQENY KDDAFAKGKTLHQTFLKNLEA FEPVAESYHAAIQEINDKRQLA ELKNIEEREGKTFHYYSLAVMI SAKQINNLISQDKFDAEAAMKK VSELETLVAQAKEADKGGMNF SFINSAGQYQLEAKKYVRRIRD KVPYSDWDKEQLQDANSSWM VEDSFPRALREYNEMLMTRIGG GAGDQDMVNDFSYSPQLVGRG WFNDQVATGCTRDSTFNQQQV ALSVNAYYVVNRFGKIDWKPM YAEADKLLAKPNMRFKSDKLV GDLSIGDQQMVEIAKVLSYESK VIIMDEPTDALTDTEAESLFRVI REMKSQAPRYCLYLPPHENNL
24345	54713	B	24483	1	1263	
24346	54714	B	24484	148	894	
24347	54715	B	24485	1	1071	
24348	54716	B	24486	168	1088	
24349	54717	B	24487	1	1236	
24350	54718	B	24488	1	849	
24351	54719	B	24489	1	1548	
24352	54720	B	24490	1	1372	
24353	54721	B	24491	1	2469	
24354	54722	B	24492	1	1917	
24355	54723	B	24493	1	1159	
24356	54724	B	24494	1	2294	
24357	54725	B	24495	217	2476	
24358	54726	A	24496	477	916	SLPECEDRVQYRRSLFADPSYR YGLARHGDPRRAGRLRDV*PL HE*YRHWHDQS/RLLIASVLPQ VWHGACNAMTSSCIARQVS*N TALIIRMRKGDLSAVMSSQTGL INIVRRGLLLSCFRLTAMKISTV SPFRPQMPSIVRSVWC
24359	54727	A	24497	1136	1317	
24360	54728	A	24498	3	317	
24361	54729	A	24499	1	1245	

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24362	54730	A	24500	85	1293	ITVATTQHQAGLTLRRAGIRQP DMAVQRDHLPFRVAGVIRHIM LMLHSQRRTGLLITAKNRLLFF QRRSVPKFHSKLNQAYCLIAAT DCPRRLLLICRYPHHFLHQLIIL AIGIGSAVFEPHQIIGVSRCCPR HLGVERVLFLFLNDFIEQVIIRC HVVCQSAPAAANIQYAHPWF* LQFFTNHFELRLLGRFQIIGIFPV SAGILHEGIKHAAEQVITQIVML FADYPGTFFTL/RD*RDERRQY AACL*NDGGVGSRDLRVRLC* KTYPVGHIPTSHPYN/CSPNPKE PSCRTRLKKSGFFTRISAGAEPL MAIPARLSNSLACGARDSAAKE VLLWFRFVLLLKQTLLNWTTK NVTSLWRTLGSPVGVKEVRAW TIPV/VSNRAAGSGQNPY*F*KR
24363	54731	A	24501	2794	3531	SPRDSPTFWTKGGPGGSRGKAL RLVVGTDFHQAADNIPDHMMY KSIRFNIYHHIRTVTRDINMHNV APRGSGLALHRTERGEIILAQQ ALRSPMHPFSVQRFVKMGYPFT QYRRAQPMIVDDVAITASRGA KSGMKIIRVSFNPTHSDVTR*IRI YAQGPRRVFAQRGCFEMHNLP GTVYPCVSTPGAEDGDGFVRH LGERLFQLLLHTADFVLPLPAVI LTGGVLNAQRNFINRRLLPYVE
24364	54732	A	24502	1	1767	
24365	54733	A	24503	1	1275	SNPTAIGGPRRPYQAEDRSLD FVDTALNRKILKDSIFHALQTIM VGIKDFLRLTQVFFDLATRIPRH LYHPVDITTHYGRFCRHRRHHF QLLQLCFRFLFCLFRHLRRVDF ALQGFVFVRRVVHFTEFFLNSF HLLVQIVLTLGFLHLLFNAVAN AFLNLQQIDFRFHHCHQIFQTFV NVGHLQNRHRKIGIVIFRSDVL EHPHRNNTIKLVVQVTIILQQN GDIQAFTAFLSHFLLFGRNGDA HHAYVIIRCHVVCQSAPAAANI QYAHPWF*LQFFTNHFELRLLG RFQIIGIFPVSAGILHEGIKHAAE QVITQIVMLFADYPGTFFTLQIE ETSAGNTQRVFEMMGELVLET RLRSPAGFTQWIPHQGCRWSCL PVPRGTLALLSPWVVDGTGRR GAGGGTPQGGSSCTGAHGGGG
24366	54734	A	24504	1	2052	

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24367	54735	A	24505	1	1060	MNARQQVAALRVPGVEKATIV YRRSLQEMPAWREEYEEALHD GFRFLNNPERFDADGTLTLRVM SLGEPDEKGRRRPVETNETVTL LVDSLITAIGEQQDTEALNAMG VPLDKNGWPDVDHNGETRLTD VFMIGDVQRGPSSIVAAVGTAR RATDAILSRENIRSHQNDKYWN NVNPAEIYQRKGDISITLVNSDD RDAFVAQEAARCLECNYVCSK CV\DVCPNRANVSIAVPGFQNR FQTLHVLEA\YCNECGNCAQFCP WNGKPYKDKITVFSLAQDFDN SSNPGFLVEDCRWVPHRGLYH RLYREPTWRSEWPRRHICPEGS TFPERHCDHLSANNSRNKLLPL QKPGFIN
24368	54736	A	24506	1316	2678	
24369	54737	A	24507	2172	5242	IYFSERLPALCTPDAHYREPCQ YNCTRLDYDSALNIRELKKVAL EKGWDEYKQRWHKPAGSGSR HPVAVIGAGPAGLAAGYFLAR AGHPVTLFEREANAGGVVKNI VPQFRIPAELIQHDIDFVAAHGV KFEYGCSPDLTIEQLKNQGFHY VLIATGTDKNSGVKLAGDNQN VWKSLPFLREYNKGTALKLGK HVVVVGAGNTAMDCARAALR VPGVEKATIVYRRSLQEMPAW REEYEEALHDGVEFRFLNNPE
24370	54738	A	24508	192	484	RGLVHRGRYRWRQKWSAGSP ARHPV/SQSTTDTPATHALSTKII SPIPNAPISALARTTATRL*RSM NQPPVKRPTVIPRVKPA*ISEPE VGPIILGP
24371	54739	A	24509	1	1713	
24372	54740	A	24510	1	651	
24373	54741	A	24511	3	783	PVLSKTPLTAKAIDAAQPQDKP YKLTDSLTPGLFLLVHPNGSKY WRFRYWLNKREFLQAIGVYPLI TLKEARRRATESRSLIANGINPV EQARKEKAIDALNMAAGFKKV AEDWFATRVGGWSESYAKQV RSALEKDVYPVLGKRSIVDITA RDVLALLQKKERTAPEQARNV\ AGASVRSSSLPLSPNWGGWLA RAAFPHHITIAARMTKHPPCW WCTILACRQASLAVRGSTHYSL ELLIRRIHILSLLRSPICASPLTV

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24374	54742	A	24512	746	2387	WTALPARLKQIRSGRKLPLTVM PALRETDTFDTFMESSWYYAR YTCPQYKEGMLDSEAANYWLP VDIYIGGIEHAIMHLLYFRFFHK LMRDASMTNPSSVPRAGGPAL LFENPKGYSMPVLCNLFGTPKR VAMGMGQEDVSALREVGKLL AFLKEPEPPKGFRDLFDKLPQF KQVLNMPTKRLRGAPCQQKIV SGDDVDLNRIPIMTCWPEDAAP LITWGLTVTRGPHKERQNLGIY RQQLIGKNKLIMRWLSHRGG\A LDYQEWCAAHPGERFP\VSVAL GAVPATILGAVTPVP\DTLSEYA FAGLLRGTKTEVVKCISNDLEV PASAEIVLEGYIEQGETAPEGPY GDHTGYYNEVDSFPVFTVTHIT QREDAIYHSTYTGRPPDEPAVL GVALNEVFVPILQKQFPEIVDFY LPPEGCSYRLAVVTIKKQYAGH AKRVMMGVWSFLRQFMYTKF VIVCDDDVNARDWNDVIWAIT TRMDPARDTVLVENTPIDYLDF ASPVSGLGSKMGLDATNKWPG ETQREWGRPIKKDPDVVAHIDA
24375	54743	A	24513	576	878	NLGSVWHYFRRSPEPATHHDA ANLERSPAA*RLSGARYRILAV *ADQSQTGSGDGSPDLQTGRV GDEARHRKRGLHVPQPRSEPPV GARGFPYRFATRWR
24376	54744	A	24514	2	878	
24377	54745	A	24515	1	735	
24378	54746	A	24516	1	1992	
24379	54747	A	24517	721	1239	

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24380	54748	A	24518	1	1954	RQLNGVQLAFRESFHTVTRVTE QHAAGAVAIHQHRNQLLTGAL GIFAVAVCCLQQRLDILLADHL AEHVQFVIAQFVTCQQHGNGV RNRTIIFLLFNELRKIVETVRVQ QTQTGEVAFHPQLFRGRVVYG PDLNARRGNGVINCSTLEDPQF GLILFVYTIGIQVGPGFFASLRV SGLRLNLFAVLIVIIGGLVTAIL HKLFDIPLPVVLGIFSGAVTNTP ALGAGQQILRDLGTPMEMVDQ MGMSYAMAYPFGICGILFTMW MLRVIFRVNVETEAQQHESSRT NGGALIKTINIRVENPNLIIDLAI KDVPILNGDKIICSRLKREETLK VPSPDTIIQLGDLLHLDSRGSPL DTQDIDLQINSSVEKQFGDAIRT TILDVLARYNVRGVQLNVDDK GALDCILRARLEALLARASGLP MISASLQQRKTRTRRSMLFVPG ANAAMVNNSFIYPADALMFDL EDSVALREKDTARRMVYHALQ HPLYRDIETIVRVNALDSEWGV NDLEAVVRGGADVVRLTKTDT AQDVLDIEK\EILRIEKACGREP GSTGLLAAIESPLGITRAVEIAH ASERLIGIALGAEDYVRNLRTE RSPEGTELLSARCPIWQAARSA GIQAFDTVYSDANNEAGFL/QE
24381	54749	A	24519	5121	5492	
24382	54750	A	24520	2520	3525	
24383	54751	A	24521	1	1263	MAINSPLNIAAQPGKTRLRKSL KLWQVVMMGLAYLTPMTVFD TFGIVSGISDGHVPASYLLALAG VLFTAISYGKLVRQFPEAGSAY TYAQKSINPHVGFMVGWSSLL DCLLAVVIIAAIYVGFSLAGFHV YIGMLFVPGANAAMVSNSFIYP ADALMFDLEDSVALREKDTAR RMVYHALQHPLYRDIETIVRVN ALDSEWGVNDLEAVVRGGAD VVRLPKTDTAQDVLDIEKEILRI EKACGREPGSTGLLAAIESPLGI TRAVEIAHASERLIGIALGAEDY VRNLRTERSPEGTELLFARCSIL QAARSAGIQAFDTVYSDANNE AGFLQEAAHIKQLGFDGKSLIN PRQIDLLHNLYAPTQKEVDHAR RVVEAAEAAAREG\LGVVSLN GKMVDGPVIDRARLVLSRAELS
24384	54752	B	24522	62	405	

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24385	54753	A	24523	891	3240	RYRKSPGSWR/CMSCILTSWITT MFPI*RLGQWC*NPCVTMAL/L APIDVHLMVKPVDRIVPDFAAA GASIITFHPEASEHVDRTLQLIK ENGCKAGLVFNPATPLSYLDY VMDKLDVILLMSVNPGFGGQS FIPQTLDKLREVRRRIDESGFDI RLEVDGGVKVNNIGEIAAAGA DMFVAGSAIFDQPDYKKVIDE MRSELAKFEDIRGVAFDLDGTL VDSAPGLAAAVDMALYALELP VAGEERVITWIGNGADVLMER ALTWARQERATQRKTMGKPPV DDDIPAEEQVRILRKLFDRYYG EVAEEGTFLFPHVADTLGALQA KGLPLGLVTNKPTPFVAPLLEA LDIAKYFSVVIGGDDVQNKKPH PDPLLLVAERMGIAPQQMLFVG DSRNDIQAAKAAGLDAQARRK NAGYYYYLRLAKRQMRAGVA EALRDDLLAAKLNVKLVNAGD YKFKQIASEKLLIVVTSTQGEGE PPEEAVALHKFLFSKKAPKLEN TAFAVFSLGDSSYEFFCQSGKD FDSKLAELGGERLLDRVDADV EYQAAASEWRARVVDALKSRA PVAAPSQSVATGAVNEIHTSPY SKDAPLVAWRLPNVEGRARAG GASSFLADRVEEEGEVRVFIEH NDNFRLPANPETPVIMIGPGTGI APFRAFMQQRAADEAPGKNWL FFGNPHFTEDFLYQVEWQRYV
24386	54754	A	24524	950	2124	MSLISSVIAATWLHVKSYRLSC GFYACQSLVLVS/IFPTLSCLFA AEQLLIWSASAFITKVLLVPLIM TYAARNIPQNIPEKALFGPAMM ALLAALIVLLCAFVVQPVKLPM ATGLKPALAVALGHFLLGLLCI VSQRNILRQIFGYCLMENGSHL VLALLAWRAPELVEIGIATDAIF AVIVMVLLARKIWRTHGTLDL TPLLFSLLCFACRKRRLSATRTV TVLHSLGITLLLILALWVVQTA ADAGEIFAAGLWLHIDGLGGLF LAILGVIGFLTGIYSIGYMRHEV AHGELSPVTLCDYYGFFHLFLF TMLLVVTSNNLIVMWAAIEAT TLSSAFLVGIYGQRSSLEAAWK YIIICTVRVAFGLFGTVLVYANA ASVMPQAEMAIFWSE

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24387	54755	A	24525	1	757	RWRLPGVPPFNGFFSKFPLFAP GFALSVEYWILLPAMILLMIESV ASFAWFIRWFGRVVPGKPSEAV ADAAPLPGSMRLVLIVLIVMSLI SSVIAATWLHVKSYRLSCGFYA CQSLVLVSIFATLSCLFAAEQLL IWSASAFITKVLLVPLIMTYAAR NIPQN\IPEKALFGPAMMALLA ALIVLLCAFVVQPVKLPMATGL KPAL/AGLATDAIFAVIVMVLL ARH\IWRTHGTLDVNNLHALK GIMSCSYSS
24388	54756	A	24526	249	3943	
24389	54757	A	24527	1	1278	
24390	54758	B	24528	48	144	
24391	54759	B	24529	27	239	
24392	54760	A	24530	1	551	
24393	54761	A	24531	3	258	MLFDEPTSALYPEMIN*VLDVM VELANEGMTMMVVTHEMGFA RKEANRVIFMDEGKIVEYSPKD AFFDDPKSDRAKDFLAKILH
24394	54762	A	24532	2	979	
24395	54763	A	24533	1	4116	
24396	54764	A	24534	1	1195	MLIAEGLMTAKNITVITNSLPA AFALSENKDITLVVCGGTVRHK TRSMHGSIAERSLQDINADLMF VGADGIDAVNGITTFNEGYSIS GAMVTAANKVIAVLDSSKFNR RGFNQVLPIEKIDIIITDDAVSEV DKLALQKTRDTSLVYVLSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKTV NGLEPVQQGEITVDGIVVNDKK TDLAKLRSRVGMVFQHFELFPH LSIIENLTLAQVKVLKRDKAPA REKALKLLER/VSGFFAHANKF\ PAQLSGGQQQRVAIARALCMD PIAMLFDEPTSALDPEMINEVLD VMVELANEGMTMMVVTHEM GFARKVANRKHTTRSTIALQSL ATCT
24397	54765	A	24535	383	962	TDNDRPGLGTDMKKASAIVTN VAVVLSGRYRRERASGEWAAL SFLRPHTLTVFVIPHIQWDDPQ MSRP\SGRHLFRCRTVQRKHAL QVVEKFRPFFPSDRYRYGAPGD YAQSFGGQIDDVVKAIQTPSKF RRFLRVSFD*IRLPILHSGKSPLR RMPNLMRRHSHTARHYPALGT RGPQPTDRQERPAVASGQ

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24398	54766	A	24536	1477	2387	
24399	54767	A	24537	1	1560	
24400	54768	A	24538	305	718	
24401	54769	A	24539	1	2161	MNDVDRVGGKNASLGEMITNL SGMGVSVPNGFATTADAFNQF LDQSGVNQRIYELLDKTDIDDV TQLAKAGAQIRQWIIDTPFQPEL ENAIREAYAQLSADDENASFAV RSSATAEDMPDASFAACTLVPG QNLSTSNKDVIELPDNQYDLDK MVNIYPVTPGLIDQLRAKPIMS QANPELEQQIANYEYRIGIGDV LMVTVWDHPELTTPAGQYRSA SDTGNWVNADGAIFYPYIGRLK VAGKTLTQVRNEITARLDSVIE SPQVDVSVAAFR\SQKAYV\TA EVSKSGQQPITNIPLTIMDAINA AGGLTADADWRNVVLTQNGV KTKVNLYALMQRGDLRQNKLL HPGDILFIPRNDDLKVFVMGEV GKQSTLKMDRSGMTLAEALGN AEGMNQDVADATGIFVIRATQ NKQNGKIANIYQLNAKDASAM ILGTEFQLEPYDIVYVTTAPLAR WNRVISLLKKLERLTSIAITLPGI IDTENGIVHRMPFYEDVKEMPL GEALEQHTGVPGEAKGLVGAP PGARDVIQVVSIPNVGRAVIPN GHLLPQGSSSLVEIAHTQGGPL MGKRCYCGNHGCLETIASVDSI LELAQLRLNQSMSSMLHGQPL TVDSLCQAALRGDLLAKDIITG VGAHVGRILAIMVNLFNPQKILI GSPLSKAADILFPVISDSIRQQA LPAYSQHISVESTQFSNQGTMA
24402	54770	C	24540	1	1389	
24403	54771	A	24541	405	576	CEMGAPPWPGCWLS\LFDVDG RFVLAWMLFQGSYLAGALGDQ PVHIHLGQLLALWRPL

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24404	54772	A	24542	1	1127	MARTLAHELIDFGEIKRGLLGIK GTEMSADIAKAFNLDVQRGAF VSEVLPGSGSAKAGVKAGDIIT SLNGKPLNSFAELRSRIATTEPG TKVKLGLLRNGKPLEVEVTLDT STSSSASAEMITPALEGATLSDG QLKDGGKGIKIDEVVKGSPAAQ AGLQKDDVIIGVNRDRVNSIAE MRKVLAAKPAIIALQIFPVDHR GAIGGQTTDIPPDPSGINHDRC MKGLSFAGEMVTYTNTAHRRA FTNQPRDFMSVAWLGKGIAILP SVGEVRSPVAGRIASLFATLHAI GIESDDGVEILIHVGIDTVKLDG QIFSAHVNGEAGLKRVVKKEH AD/VQRHAESV*RRGQAQGTD GIRRQDNRVQPGCERCTHQLLR
24405	54773	A	24543	95	599	QIMRMLNGSSTPNTSLPTPQAF DRSLPINATSARPSSTSTRHSAE SSISRDCVSNVS/HSGG*TGGIK G*CHAHPADLTACHEADSRGSP SHAVAAVALHVID/GWYLGDQ TAAYATGSAVSCPSSGNQFSRP SAAGRFSAVSAPQGAQRHPGR ARRRPRRRRTAGGCRR
24406	54774	A	24544	640	890	LANAQLGSNEISIFQCFAAIQRFI KLHRDASVINHPLAE/TRK*YPV SVYHLRHPPAIIR*PAIRDNA**I LPVTPGYSCSRHQ
24407	54775	A	24545	3	257	ETDIFICDSREFFHHFAKASVHI* PVVSIANFAIQSGKILALGAENI ATTSDRRAQRQKAVCKAHDAS SVSFRTLSVRPTNDCP
24408	54776	A	24546	332	1047	RTRPYCPGMGNEPMTGWMAA AVVTLMIRMCFSVYTMLSESC QRMVIVGYGRCFADRQNLMVC LRSMPNVFTGSCARMRCCLSEN LLYRHRNGHIQAEWP*KKAISD VKQYRTSCWERWNAASATIFR/ LSPVEWLTDNGSCYRANETRQ FARMLGLEPKNTAVRSPESNGI AESFVKTIKRDYISIMPKPDGLT AAKNLAEAFEHYNEWHPHSAL GYRSPREYLRQRACNGLSDNR CLEI
24409	54777	A	24547	1200	1544	LTGVADGNVDKPCYKFARLW YWIYPAFPPIRRVKVAYREYRP PTTPRVRQVRDLTFCHRPAIPDR MHRY*SSHRALPGCWSKVPAQ KSSRTVSGTD*VDLLSPRAQRA PSPLQG

SEQ ID NO:	SEQ ID NO: nf peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24410	54778	A	24548	263	625	
24411	54779	A	24549	742	851	VSAQQRVILNKIAVLNRK*RYG CWRLWICPYISRHLLSLNPLQA RCRRYSRGER
24412	54780	A	24550	1	532	MKTLLIIDANLGTRLYGEDPAG AAARKAKLEIIDNPNDAEMAIV LGDSIPNDSALNGKNVWLGDIS RAVAHPELFLSERKGHAKPYTA PVAATAPVGASGPKRVVAVTA CPTGVAHTFMALKPLKPKRKN VAGIPDTGQYCETVQTSCW/AA VETPLRQRSSVVSSGVADG*WF MLPG
24413	54781	B	24551	1	888	
24414	54782	A	24552	1	2283	
24415	54783	A	24553	992	1662	KKAISDGALTGSSSAVITERDC VSRSRWTAVIVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLTDNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAAKNLAEAFEHYNEWHPHS ALGYRSPREYLRHGLVSFISSLQ KFINDFAFEDGLFSGYDAEKRQ YEKSSWNYQLDENGYAKRDET LTHPRC
24416	54784	A	24554	1	2262	
24417	54785	A	24555	158	410	
24418	54786	B	24556	1	2607	
24419	54787	A	24557	715	1016	KSAAVPRSGASSQSDSAHFAQP EYAAFSRFPRGSFRHPRAA*YF GRLNHHVRSERGINP*YHRFNL HWRYVADAISADGAFRTVSGG GGRRSGAGRVDWQ
24420	54788	A	24558	652	1214	RTDHCVSRSRWTAVIVRHCTG RSLPAASTVKQYRTSCWDRWN AASATIFR/LSPVEWLTDNGSCY RANETRQFARMLGLEPKNTAV RSPESNGIAESFVKTIKRDYISIM PKPDGLTAAKNLAEAFEHYNE WHPPSALGYRSPREYLGQRACT GHAIGSGPSSAFFGAPVRRVSRT SVTAKACPRGLL
24421	54789	A	24559	647	1976	
24422	54790	A	24560	289	574	ETPASSPTLRTSIPSISWMTRGSL RRVMLLCPFPSESGTVSEKAWP EWSSFSSSPPSCRTSASSPPSHLR /NIDVSPKHVVFATIPRNYTMSF LPR
24423	54791	A	24561	816	1375	

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24424	54792	A	24562	1	3993	MSQKLKVVTIGGGSSYTPELLE GFIKRYHELPVSELWLVDVEGG KPKLDIIFDLCQRMIDNAGVPM KLYKTLDRREALKDADFVTTQ LRVGQLPARELDERIPLSHGYL GQETNGAGGLFKGLRTIPVIFDI VKDVEELCPNAWVINFTNPAG MVTEAVYRHTGFKRFIGVCNIS IGMKILKTRTLDTTGSTSTGDTL LTQSLLMELSALCRVEVEEGLA LVALIGNDLSKACGVGKEVFG VLEPFNIRMICYGA
24425	54793	A	24563	1136	3608	KKAISDGALTGSSSAVITERDC VSRSRWTAVIVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLTDNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAAKNLAEAFEHYNEWHPHS ALGYRSPREYLRQRACNGLSD NRCLEIYGQIQLGTGELNITTGV VVTARDTHIALNFQKRRTTGLA TQSRQRCQNRRRVMGKIVIYRD AIRFTTQLQTATSINKRTQRVSG ICRRYTNMASRCNRHQAIVHIM FAYQRPFHFAHFFAIQQNFPFGS IGGQLFRLPVTLLTHQLLLAPA AHRHGLFQVDVIFRPDNTALPR NDTHQMVELFLDRFQVVKDIG VIELKVVEDQRTRAVMNKFRA FVEKGAVILIRFDKKKDIFLQYR FHTRISTGHGVANNHQIRLRLE LAGIVPLNQLNPLPLNSVPMINI MNGGENADNNVDIQEFMIQPV GAKTVKEAIRMGSEVFHHLAK VLKAKGMNTAVGDEGGYAPN LGSNAEALAVIAEAVKAAGYE LGKDITLAMDCAASEFYKDGK YVLAGEGNKAFTSEEFTHFLEE LTKQYPIVSIEDGLDESDWDGF AYQTKVLGDKIQLVGDDLFVT NTKILKEGIEKGIANSILIKFKAQ HAGLLHMYTCAMLGVGGQCW RYCMSQAFKEDRFAQDQRVAV
24426	54794	B	24564	83	2851	
24427	54795	B	24565	1	1578	
24428	54796	A	24566	574	753	
24429	54797	A	24567	1	2112	
24430	54798	B	24568	27	969	
24431	54799	A	24569	1	1773	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24432	54800	A	24570	822	984	PSALCGCHSL*CSNASARFFAA VNPSGAFGCRADHPDGELFLTG YVADGGYHS
24433	54801	A	24571	1	4287	
24434	54802	A	24572	1	2384	
24435	54803	A	24573	3	3682	ACSARPSEAELLELIDTLNADN TIDGILVQLPLPAGIDNVKVLER IHPDKDVDGFHPYNVGRLCQR APRLRPCTPRGIVTLLERYNIDT FGLNAVVIGASNIVGRPMSMEL LLAGCTTTVTHRFTKNLRHHVE NADLLIVAVGKPGFIPGDWIKE GAIVIDVGINRLENGKVVGDVV FEDAAKRASYITPVPGGVGPMT VATLIENTLQAMSNMATFSLGK HPHVELCDLLKLEGWSESGAQ AKIAIAEGQVKVD
24436	54804	A	24574	1	1382	MLRGVNVLADAVKVTLGPKG RNVVLDKSFGAPTITKDGVSVA REIELEDKFENMGAQMVKEVA SKANDAAGDGTTTATVLAQAII TEGLKAVAAGMNPMDLKRAS RSRKGYGPARIRQELNQKGISR EATEKAMRECDIDWCA**RF*S DKHHHRT*RQ/PTRHRYPDESV PGSHNHRSAHALSSAQGYILLP RAVLSGWRFENVHPTPGYPAG SGSVFVPPPMTSRRLPAPDNFA APHRYRVLKTGLLSPGCHVRN ADTL
24437	54805	A	24575	466	1215	
24438	54806	A	24576	1104	1923	LAIPMKDFITEAWLRANHTLSE GAEIHLPADSRLTPSARELLESR HLRIKFIDEQGRLFVDDEQQQP QPVHGLTSSDEHPQACCELCRQ PVAKK\PDTLTHLSAEKMVAKS DPRLGFRAVLDSTIALAVWLQI ELAEPWQPWLADIRSRLGNIMR ADALGEPLGCQAIVGLSDEDLH RLSHQPLRYLDHDHLVPEASHG RDAALLNLLRTKVRET\ETVAA Q\VFITRSF\EVLRP\DILQALNRL SSTVYVMMILSVTKQPLTVKQI QQRLGETQ
24439	54807	A	24577	243	644	HAGSVCPSLYRCQRTAKRSGFY LLLKRLWSFSGNI*IHSGQQNPG RNQQLGLPRSRKGESSRAHPSC QRRPQVWPHPLAGSRPPRPWA ACARLGPIAPARQIPERWPGQV PVLADAHVLPCLAGSLRPALYD F

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24440	54808	A	24578	237	454	RSRLPEGVPVCWCNHSVR*RDC RFPVGKLHRLWL/LALPGVRLIF RASTKRITGYINARSASIASASA RNRLV
24441	54809	A	24579	377	1155	KAYSFATMKSLAISCRWQNA*S HVSTFVMVRW/LKGVQFRNHEI IGDIVPLAKRYAEEGADELVFY DITASSDGRVYPTLITRLADRFG VQCIVVGIDTWYDARNLKDISV VGLLGAQVPSVRAGMPQSRRQ TEGAQGMVRNEEGGSLRLSHH QACKATHTQQWTLEVTAQSSY NLFPEQWVKLFWGIRQGDLPL AFSQKLSRQTFQQQQTQTPRPI VGQAPKDLQTGTGTPQTHAVH SGDHAAGEQSCKSCKAPIYPLT AQFSLETRSFWGSEWGYSTHG ELRRRDKGRRRFY
24442	54810	A	24580	1107	1458	RTFWWTTCNSLAPCAGGYPST GAALPVSRKLPGRGLLLSGWG EHNARYRAGTFLWALFCAAAV AYWRRC\WGQYGMWFLRIRRG TLGDGTIRRVFVGSLWAAVVIV EIGVEHIGVFKA
24443	54811	A	24581	171	352	PPAPPAESDGLPAHTTRARTTA DDLRNKRRQHVGC*YRTRGSP RPNRTWWRVCRYRSPHR
24444	54812	A	24582	5	226	
24445	54813	A	24583	476	1939	RPESQHNTAKPAMKVLEQARR FLGIRWLSAPASLAN/PVILLVV GNILNIVLDVWLVMGLHMNVQ GAALATVIAEYATLLIGLLMVR KILKLRGISGEMLKTAWRGNFR RLLALNRDIMLRSLLLQLCFGAI TVLGARLGSDIIAVNAVLMTLL TFTAYALDGFAYAVEAHSGQA YGARDGSQLLDVWRAACRQSG IVALLFSVVYLLAGEHIIALLTS LTQIQQLADRYLIWQVILPVVG VWCYLLDGMFIGATRATEMRN SMAVAAAGFALTLLTLPWLGN HALWLALTVFLALRGLSLAAI WRRHWRNGRPGTGCLNTKGS QQQHRHDSTTQHIHLQLLVIRV KTTTTNNSQQTPQYPCQQYHT DSRQHRQQNRMVCQRIPHALPS PRFRQISRGSTAKVPCAKARAF LRVKSDPTLITRLADRFGVQCIV VGIDTWYDAETGKYHVNQYTG DESRTRVTQWETLDWVQEVQK RGAGEIVLAYVSE

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24446	54814	A	24584	1	50	
24447	54815	A	24585	354	456	HLFSEACCSPGVLRELCRPF*SP GTDRNLVMHGH
24448	54816	A	24586	494	835	ITWLPGFRPPFQGSEQFCLAGVP GATGGSESVLHTRNSYKMLEV RREVAALISALKVSAKCRNCGS SHALTEP/ASSPCWRETSTRPTG APAPTIPPPAASPSPGPMCVQPH GED
24449	54817	A	24587	3	726	
24450	54818	A	24588	1	1635	
24451	54819	A	24589	1614	2454	RTTHAPASTPNTGTMLCRPYPC CWRRKTP\IIFRATPQWFVSMD QKGLRAQSLKEIKGVQWIPDW GQARIESMVANRPDWCISRQRT WGVPMSLFVHKDTEELHPRTL ELMEEVAKRVEVDGIQAWWD LDAKEILGDEADQYVKVPDTL DVWFDSGSTHSSVVDVRPEFA GHAADMYLEGSDQHRGWFMS SLMISTAMKGKAPYRQVLTHG FTVDGQGRKMSKSIGNTVSPQD VMNKLGADILRLWVASNDYTG EIAGSDENLKRACHYNACSISL ARRRH
24452	54820	A	24590	362	517	TKSLISSMSSISSPPVVLICRNSS PEV**RKI*LGTELEFVIMVIAVS AWP
24453	54821	A	24591	250	930	
24454	54822	A	24592	1388	1912	VCPAAMTGFAGSPFCTAVVTFP DITPLLWILMC*LAILMAESEPK AISPPTISVVP*YAAESLLRVRIP VPSFVTSPLPLILCVIAQLRSVE MVSRPLLITEASPRFFCSLTLSA LPVSMLNCPTKRLLSPSNSTSVL AVALTIPFPLMLLRSSPVTFFSV NRPSWAIFPLPNP
24455	54823	B	24593	1	6018	
24456	54824	A	24594	510	1003	VALQADQKHKHERPLPPPIPTM FQLAQPGVQLHAKPVYQVP/V MMQATEPTGI*VRIPVLSISTNA PSITSIWPLFVRKISVLTLASVV AASHAASSPRQCAIRCK1WGRW AGSLRRDDGFGVRSRGSRYGA SVSISNFSAGINGKSSRSSSPRRS SQTQPVMPI

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24457	54825	A	24595	197	4314	RASTELSLRCCAPSLQ/ALLHFL YLACFTWMLLEGLHLFLTVRN LKVANYTSTGRFKKRFMYPVG YGIPAVIIAVSAIVGPQNYGTFT HCWLKLDKGFIWSFMGPVAVII LINLVFYFQVLWILRSKLSSLNK EVSTIQDTRVMTFKAISQLFILG CSWGLGFFMVEEVGKTIGSIIA YSFTIINTLQGVLLFVVHCLLNR QINSLLLTWTLWILRQRLSSVN AEVSTLKDTRLLTFKAFAQLFIL GCSWVLGIF
24458	54826	A	24596	1409	1573	
24459	54827	A	24597	1283	1563	
24460	54828	A	24598	281	839	CVPTTDLVVQSQI*PRWRNWPR CSCSHVSMKAASSPERTFTYCS GIYWLISGSGIGVSVPLLISIGES VINLAVRPVIAHAIRVAITTRQT TRVAVTVVVALPVFRAVEHHV FQHLTQTRTGFRWHQFFNRRQ REQSFTQGEGQRWANFQNGKV VNHQLAQRLRRLIIGRVRFENQ RFVVFDHLA
24461	54829	B	24599	1	5652	
24462	54830	A	24600	559	1665	RVERKATIEMKSQRTTSDSWLII LAKQTGIIRAAKKGKKTFILHD GPPYANGSIHIGHSVNKILKDII VKSKGLSGYDSPYVPGWDCHG LPIELKVEQEYGKPGEKFTAAE FRAKCREYAATQVDGQRKDFI RLGVLGDWSHPYLTMDFKTEA NIIRALGKIIGNGHLHKGAKPV HWCVDCRSALAEAEVEYY\DK TSPSIDV/AHPFMGFDVPAILGD HVTLDAGTGAVHTAPGHGPDD YVIGQKYGLETANPVGPDGTY LPGTYPTLDGVNVFKANDIVVA LLQEKGALLHVEKMQHSYPCC WRHKTPIIFRATPQWFVSMDQK GCDIGFHASSNGKRRADDSTDN HVRRLCARQRGQPHPHQFQRT

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24463	54831	A	24601	1	1190	MTDFRESDTMSLFDKKHLVSP ADALPGRNTPMPVATLHAVNG HSMTNVPDGMEIAIFAMGCFW GVERLFWQLPGVYSTAAGYTG GYTPNPTYREVCSGDTGHAEA VRIVYDPSVISYEQLLRKYRCV AVALLGYFKCKPILLNPSYKSM QDDLAFIARFHFKDLKFRRFSL KADQKSRIYERVLSIAGVNSWK DKQHQPRLVEHLLVCAESWVA PRALFDAAIEYLAHQKIAIPAYL VAFLVLGPLVLSLIPSQMLPSLT WSSITYSIVVIVEAGYQYHSRLR RFGRVEVNEQIEYLIHNPIRTRA RAVNFVDNNNRLQAPRILRQDS WWITRPLPGLTWAIIGSPGILPQ VVKSARVMKQAVAYLEPFIEA SKEQGKTNGKMVIATVKGDVH DIGKNIVGVVLQCNNYEIVDLG VMVPAEKILR*KLGGTPRTL*R SNRVPGPPEDRHSCLFGCV/YW FLVP*CCLSSLRRCCRR*RGQAS RIQ*LLSSKLAISTIL/GLRRFGR VEVNEQIEYLIHNPIR/IARQGG QLC**QQSASGPTDITAGFMVD HQTFTGADVGDNRVARNPATG GQIGARHETGGGLPRTVY*SQQ RAGQNQRQDGDRHREGRRPRH

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24464	54832	A	24602	1	1591	MGILVSPLLAPLIGGLLDTMWN WRACYLFLLVLCAGVTFSMAR WMPETRPVDAPRTRLLTSYKTL FGNSGFNCYLLMLIGGLAGIAA FEACSGVLMGAVLGLSSMTVSI LFILPIPAAFFGAWFAGRPNKRF STLMWQSVICCLLAGLLMWIP DWFGVMNVWTLLVPAALFFFG AGMLFPLATSGAMEPFPFLAGT AGALVGGLQNIGSGVLASLSA MLPQTGQGSLGLLMTLMGLLI VLCWLPLARGYRLSSWTSTTAS EDIDCEEGDGEGNETHGLQLAV EPEGLQPNYMGRGKIRFRDTCL LFCTQSRGSQWGFARTELVALL PPFLSGAADYRAGLALWLARG ADCDVDERHRADRQSNLARSS GGFIALAAGAKSDRRLRELNQS LQKELARNQHLAERLLETEESV RRDVARELHDDIGQTITAIRTQ AGIVQRLAADNASVKQSGQLIE QLSLGVYDAVRRLLGRLRPRQ LDDLTLEQAIRSLMREMELEGR GIVSHLEW\QSMNQR*AKTSA* RCFVSARKG
24465	54833	A	24603	1	1752	
24466	54834	A	24604	1	699	
24467	54835	A	24605	965	5516	
24468	54836	A	24606	84	3760	
24469	54837	A	24607	27	278	

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24470	54838	A	24608	311	2529	REWGSTRRCERRISLSRNIARW RTIWRITRPCRRCVFRFIASTLR LHLHLIMNDLPLEEYPCVRDLV PGRFLKFL/HRDPKGTTLVLASD LPGRIPVDPRSIIVMLFLAVRWL QRQLAGQELLETRATRILNGER GSNVLGTIYEWPPRTSSALDTL LREIQNAREQHSRLDTLIRSYA AQDVKTGLNNRLFFDNQLATL LEDQEKVGTHGIVMMIRLPDFN MLSDTWGHSQVEEQFFTLTNL LSTFMMRYPGALLARYHRSDF AALLPHRTLKEAESIAVFRALS RLPDLWHRSIGTLTEALPQTDK RQEQIAVALTSYSGLYGLGYGS KEIQLTYSGTAGDLISPGLSAIH GRCILNTLVFIVKLRWMENTLH RFGTHHGCSAVRSSHLDSGSPR RSSWHMARARNHIHVLEENMA LLMEQAIANEGLFYRLLYLQRS LTAASSLDDMLMRFHRWARDL GLAELLVVLPEAKAVGSVAMS MLGSDADWGVVLFTSRDASHY QQGQGTQLLHEIALMLPELLER WIERGWEQQVWRYGFLRYVAF LTGWSAQNELKANPAKGVSAP KAPRHLPKNIDVDDMNRLLDID INDPLAVRDLMYGAGLRLSELV GLDIKHLDLESGEVWVMGKGS KERRLPIGRNAVAWIEHWLDL RDLFGSERERRQHAGTNVLQT ADQRASRARQEGERLHRAAGR
24471	54839	A	24609	1	1749	
24472	54840	A	24610	1	2911	MNIDAKILNKILANRIQQHIKKL IHHNQVSFIPGMQGWFNIHKSM KVIQHINRTKDKNYMIISIDAEK AFDKIQQPFMLKTLKKLVAGM MAVAAPDDPPPPSVSSSKPSTV APPGRISPSGRALCTSLPSALSSS SKFSLLRIFQVPAKLGMVAVAA AAGVNAMLRKVAVAAASKPH VEIRQDGDQFYIKTSTTVRTTEI NFKVGEGFEEETVDGRKCRVR PQSHYSVPVSPLGAHGPLLLEE PVSPFAACGAPS
24473	54841	A	24611	249	609	QIEVCVRIKPKAGTVLAYS*RSR QERPPAPGMTSLSLAAVSSDNP VSGDEHIRLARASGRFGIGRVA QPKRIQRRSSTPRAATDLGNPG HRPCTVRKSALLVVSVCRRHSS RSLRFRSC

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24474	54842	A	24612	942	1121	
24475	54843	A	24613	1010	1658	EISSSKRSRTVCKRRAPMFSVDS FTCHAASAMRLIPESVNSIFTPS VAISALYCTVIEAFGSVRIRSKS LVVSACSSTRIG\DDLAVPGSGQ TVSQSGTRQKR*TECGQF*PSR VWWKRCNLLPAAAGHAERLH EKHPDRKTRRVRLVWLAGPPT RLLGTMGAGTLVLGACCLPWP REGAHNVATAACGGWRARCD LRFRLSCKLGLSRQFFGWNA
24476	54844	A	24614	1	1995	
24477	54845	A	24615	1	2853	
24478	54846	A	24616	1	1755	
24479	54847	A	24617	2942	3454	SVPDWLMCTAFLSLSRINSPRL LKAELLLTSSIPVLLPSLLLPRFQ VPSLFATAVPVSAAPLIIAPSV*L LKTPPADIIRPVTLPLLLNTPAFC TILLMVPVLFTNELSAPAFMVIC AVISPALLRIPPLTSTLFVITPAF LMTAPLSSFTKLLMMPPLVFSR RPLDTVI
24480	54848	A	24618	1	2959	MKRYRPREILPWKVPPGNYTPK IFKIKGTGHNPMSAIENFDAHTP MMQQYLRLKAQHPEILLFYRM GDFYELFYDDAKRASQLLDISL TKRGASAGEPIPMAGIPYHAVE NYLAKLVNQGESVAICEQIGDP ATSKGCCRSGNRNGGRKIVAVS LKKVSGAAKPCGHFRSTRYRV AYSTIINNKAGIWSAFEGVSAT RPNPTPRASPAVRTLSRGTPEPR KISTDADNLAQGSLKERLPAWL WGKKENSKWEVLD
24481	54849	A	24619	441	1425	
24482	54850	A	24620	1	2574	
24483	54851	B	24621	1	1725	
24484	54852	A	24622	160	390	
24485	54853	A	24623	892	1183	
24486	54854	A	24624	1	2493	
24487	54855	A	24625	435	829	ASDVLVSEGCR/YRGASALTST SVICINTDKALRKIIRLPLNGLR KPLNAMTPLPGITWPLCITTEKE DLSISDRLSTCIVKFSHPEPEMS VRKFVPPAILLCSVCLRFSCPTR HQKAPAKWILKSCSAWMR
24488	54856	A	24626	763	1863	
24489	54857	A	24627	1423	1712	

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24490	54858	A	24628	1	2792	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASPVKCIVLQVL RGLQYLHRNFIIHSQEQTIPDPSI SDQQETPLLAGDMAQRGRRGG FYYVTAYIYVDKKAPVHMRTA AQGLITLCCQGFGSLLGYRLGG VMMEKMFAYQEPVNGLTFNW SGMWTFGAVMIAIIAVLFMIFF RESDNEITAIKVMEDSMSSATT LTTPQEQVDSLIMQIAEENGLE VLDQLSQLPEGASAVGESSVRS QEDQLSRSFICLMAMM
24491	54859	C	24629	213	345	
24492	54860	A	24630	1	474	MHQTTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTIILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDLNNLPTYAPFI TTNLTGPAPTTTHPVGNLGTTG NPEPGGCGILIVWCCVNWACL WDSVVAAPREPYMPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFLVVSVLDFEKRL**RR WRRSPAGI*GSRGAATTLSQRQ AQLTQHQTIRIPHPPGSGLPVVP KFPTGCVVVGAGPVRFVVING
24493	54861	A	24631	1	924	
24494	54862	B	24632	177	468	
24495	54863	B	24633	592	883	

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24496	54864	A	24634	1	1926	MATAKANQEIQEWLGKYGTAR VKLNVDKDFSLKDSSLEMLYPI YDTPTNMLFTQGAIHRTDDRTQ SNIGFGWRHFSGNDWMAAVIT FIDHDLSRSHTRIGVGAEYWRD YLKLSANGYIRASGWKKSPDIE DYQERPANGWDIRAEGYLPAW PQLGASLMYEQYYGDEVGLFG KDKRQKDPHAISAEHSPEFRSE ALKLVNASVLLPQPVNSACMN HNSTTGAVNSKISRRLLNVNW RCLPRLHVSNASWQNGMKSWL SSKRPRHTSEAPEMKYVFIEKH QAEFSIKAMCRVLRVARSGWY TWCQRRTRINIAVVRRADGSRT SFVYTSYLAKVNEEWKNNVGT GSTVKWPIGLGGKGNDGIAAF VQRLPGAIGYVEYAYAKQNNL AYTKLISA*NEVCLY*KTSG*V QHQSNVPR/RSGWPAAAGIRGV SGGQG*TLL*YAAQMAPELPSS TPATWRK*TKSGKTTLV/HGST VKWPIGLGGKGNDGIAAFVQR LPGAIGYVEYAYAKQNNLAYT KLISADGKPVSPTEENFANAAK GADWSKTFAQDLTNQKGEDA WPITSTTFILIHKDQKKPEQGTE VLKFFDWAYKTGAKQANDLD YASLPDSVVEQVRAAWKTNIK DSSVNFDMANVFFRVTPGNFL VNREASHQRRVFAVRAGVDFI YRASSDGLRRCRDRRTRFKRIN
24497	54865	A	24635	1387	1639	ESKPLNLGRGSGFLLTRALSAQ PLWQSPDQHLTPQAGLRSRL*A QRQA*QKTASRVV*PKPLWAL VKATSEDISVVL*ESACQC
24498	54866	A	24636	1570	2516	IEVAMSIVVKNNIHWVGQRDW EVRDFHGTEYKTLRGSSYNSYF IREEKNVLIDTVDHKFSREFVQ NLRNEIDLADIDYIVINHAEEDH AGALTELMAQIPDTPIYCTANAI DSINGHHHHPEWNFNVVKTGD TLDIGNGKQLIFVETPMLHWPD SMMTYLTGDAVLFNYDAFGQH YCDEHLFNDEVDQTELFEQCQ RYYANILTPFSRLVTPKITEILGF NLPVDMIATSHGVVWRDNPTQ IVELYLKWAADYQEDRITIFYD TMVNNTPMMADAIAQGIA\ETG PRLAGENFNV\ARNDKHEDPDL LSFRSERGA

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24499	54867	A	24637	24	363	
24500	54868	A	24638	2	366	RATPRHIIVRFTKVEMKEKMLR AAREKGRVTLKGKPIRLTADLS AETLQARREW*QNLSAFACL*R ILFLLHL*SLVWLDMKCWVENS FL*EC*ILAPTLFWLVGFLPRDP LLV*WASL*G*PDLSLWLPLAF FPSFQLW*I*QLCVLELL
24501	54869	A	24639	232	292	
24502	54870	A	24640	4	911	
24503	54871	A	24641	2795	3226	SWWISFLMCCWIWFASILLRIFA SMFIKDIGLKFPFLVVSLPGFGI RMMLAS*NELGRIPSFSIGWNSF RRNGTSSSLYLW*NSAVNPSGP GLFLVGKLLVIASISEPVIGLFTD STSSWFSLGRVYVSRNLSISSRF SSLFA
24504	54872	A	24642	1	3285	
24505	54873	A	24643	1	4368	
24506	54874	A	24644	200	335	YALLNKDSSPWYPFSVPVLASN TRYLWPLSST**GSLSVWLSPD V
24507	54875	A	24645	174	263	
24508	54876	A	24646	1244	1354	

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24509	54877	A	24647	194	2481	GMFRMNLMEPLTQCINAGHEM TKAIAIAQFNDDSPEARKITRR WRIGEAADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQRVGY TIEQINHMRDVFGTRLRRAEDV FPPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNDPQ GTASMYHGWVPDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPG LDIIPSCLALHRIETELMGKFDE GKLPTDPHLMLRLAIETVAHDY DVIVIDSAPNLGIGTINVVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEPDVRILL TKYSNSNGSQSPWMEEQIRDA WGSMVIKNVVRETNEVGKAA PMVDSLIARVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTPAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSHPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGVIFEAEEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLDSPQSFSPGAGDHA NSPQSSSPSTGVHINSPQLSSLS AGVHTISPQSSNPSVGVTALSHP DLVWVFTLTAHSRPVLVWVFT
24510	54878	A	24648	1361	1694	
24511	54879	A	24649	1	3852	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPEARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHRAQ DLALKGLRVLLVEGNAPQGTA SVYHGWVPDLHIHAEAALLPF YLGEKDDVTYAIKPTCWPGLDI IPSCLALPRIEPELMGK/FDEGRS FMPGPP/HHHPLGRSSQ*QVSNS LDRAAKGN*KPLCHC

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24512	54880	A	24650	1	1720	MEKLLLENDSLSKDVSRLETVF VPPEKHEKEIIALKSNIVELKKQ LSELKKKCGEDQEKIHALTSEN TNLKKMMSNQYVPVKTHEEV KMTLNDTLAKTNRELLDVKKK FEDINQEFVKIKDKNEILKRNLE NTQNQIKAEYISLAEHEAKMSS LSQSMRKVQDSNAEILANYRK GQEEIVTLHAEIKAQKKELDTIQ ECIKIMKRAPVIPKHTLNTQPVE DTSLSTPAAPMVDSLIARVGVM ARGNAITLPVCGRDVKFTLEVL RGDSVEKTSRVWSGNERDQEL LTEDALDDLIPSFLLTGQQTPAF GRRVSGVIEIADGSRRRKAAAL TESDYRVLVGELDDEQMAALS RLGNDYRPTSAYERGQRYATR PQNEFAGNISAMADAENISRKII TRCINTAKLPKSVVALFSHPGE LSARSVIDSAPNLGIGTINVVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEPDVRILL TKYTNINASQSP\WMREKFGMA WESMVLKNVVRETDEVGKGQI RMRADFV\QAIDQRSSTGAWRN ALSIWEPVCNEIFDRLIKPRSEIT
24513	54881	A	24651	1094	2271	APFHRPHTKQSLQEQTDVVSIN EFLKQMAF*AQKLKE/WRTSAA SDITPAGFCSCRAIKDAEKPGRL PHPD\MEFRDRVDQ\RVVSPFGQ II\HMRNVFGPRLPRAKDVFPPV IGVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGN\DP\QGT ASMVSREGDPALHI\YQEAPFLP FYLGEKDDVTYAIKPTCCPGLN IIPSCLALPRIETELMGKFDEGK LPTDPHLMLRLAIETVAHAHDY DVIVIDSAPNLGIGTINVVCAAD V\LIVLTPVE\MFDYTSARQFFD MLRDLLKNA\DLKGFEPEVRIL LTKYSNSNGSQFP\WMEEQIRD AWGSMVLKNVVRETG\EVGKG \QIRMRT\VFEQAIDQRSSTDTSL STPAAPMVDSLIARVGVMASR
24514	54882	A	24652	1	1415	

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24515	54883	A	24653	3008	8165	ILIPFFIGLQNRFTQFRLSETKEIT NPYAMRLYESLFQSSKTNGSGI VSLKIDWIIERYQLPQSYQRMP DFRRRFLQVCVNEINSRTPMRL SYIEKKKGRQTTHIAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGTRLRRAEDVFP PVIGVAAHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNDPQG TA\SMYHEWVQNLHIHAEDTLL PFYLGKKDDVTYAIKPTCWPGL DIIPSCLALHRI
24516	54884	A	24654	1	848	
24517	54885	A	24655	2354	3640	NVICNQELVYSSRHQFAPGATV LYKGDKMVLNLDRSRVPTEYR YGVFLNVLLPATKYFQLHDPSL RNMELNYSLASEDI.VLKGLRV LLVEGNDPQGTASMYHGWVP DLHIHAEDTLLPFYLGEKDDVT YAIKPTCWPGLDIIPSCLALHRI ETHLMGKFDEGKLPTDPHLML RLAIETVAHDYDVIVIDSAPNL GIGTINVVCAADVLIVPTPVE\L FDYASARQFFHMLRPLLKNVD LKGFEPDVRII.LTKYSNSNGSQ SPWMEEQIRDAWGSMVLKNV KEFAGNISALADAENISRKIITR CINTAKLPKSVVVFFLTPVNYL PGDALQKAFTDKEELLKQQAS NLHEQKKAGVIFEAEEVITLLTS VLKTSSASRTSLSSRHQFAPGA TVLYKGDKMVLNLDRSRVPTE CIEKIEAILKELEKPAP
24518	54886	A	24656	667	870	QIVSSEPKYTDFLSKIPFEQRVR DVQRNGDHTEGAVR*LSIAFFS ALLKLLAFFTEEVRAAAVVRFV
24519	54887	B	24657	1	1086	
24520	54888	A	24658	2	250	WRTKSLDIPPLIYPNGIVKNILR HLSQLLNVPITRPFSWIL.RPF*RP *RKISTSFIRPLFTFLPA**MLIRS SVWQ*KTVSW

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24521	54889	A	24659	1	1608	MAETAVINIHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLLYMTYRKPDGS GIVSLKIDWIIERYQLPQSYQRM PDFRRRFLQCINAGHEMTKAIAI AQFNDDSPEARKITRRWRIGEA ADLLGVSSQAIRDAEKAGPLPH PDMENRGRVEQRGGYTIEPNN HMRDGVGTRWRRAEDVF\PPLI G\VAGHKGGR\YKTSVSVHLAQ DLALKGLRVLLVEGNDPQGTA SMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCLALHRIETELMGKFDEGKL PTDPHLMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLPD LVKNRDLKGVEPDMRKQRHR KAKDLLAQDPTAMTTDELLKE ATRCPICTAYLEKPMSLECECV FCLSCTNSLQKEPQGEGVLCPF CLEASQKNNIRLNRQLGRLVSH IKELEPKLKKILKMNFKDAEVP RFSSPKPCSSFFSTCYLSKNCSN HPCYSPYPGSGWG
24522	54890	A	24660	1	1128	
24523	54891	A	24661	1035	1208	SLIDRIEALGIFRFAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS
24524	54892	A	24662	1	1316	MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPPVIGVAA HKGGVYKTSVSVHLAQDLALK GLRVLLVEGNDPQGTASMYHG WVPDLHIHAEDTLLPFYLGEKD DVTYAIKPTCWPGLDIIPSCLAL HRIETELMGKFDEGKLPTDPHL MLRLAIETVAHDYDVIVIDSAP NLGIGTINVALQNFQRYTGIQH VHRIGMAERMWCDRNRERHT VSSSGGNRLPNPGPDRSDLALK GLRVLLVEGNDPQGTASMYHG WVPDLHIHAEDTLLPFYLGEKD DVTYAIKPTCWPGLDIIPSCLAL HRIETELMGKFDEGKLPTDPHL MLRLAIETVAHDYDVIVIDSAP NLVFRICFVIWAQERIDIKGFEP DVRILLTKYSNSNGSQSPWMEE QIRHAWGSMVLKN/VVRETDE VGKDTGVRSKSIWCHRNSRWE

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24525	54893	A	24663	504	1254	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVHKHLLGDNRYPIW IMQPSAHHPARQPEHDIAFGKC SSSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWVPDLHI HAEDTLLPFY\DPHLMLRLAIET VAHDYDVIVIDSAPNLGIGTINV VCAADVLIVPTPAELFDYTSAL QFFDMLRDLLKNVDLKGFEPD VRILVVRVSQRMVVAGCIIAFID KLLNVLICFPFSVKNRFVIFHSV DFECVIRF
24526	54894	A	24664	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPEARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRL/VKRAPTC WPGLDIIPSC\LALPRIETELMGK FDEGKLPTDPHLMLRLAIETVA HDYDVIVIDSAPNLG
24527	54895	A	24665	1	419	MSSSDKDFDFSVANMVNFFAP VFPMGKYYTQADKVLIPLAIQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE/ VGCRR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP VYAVSA
24528	54896	A	24666	1	2598	

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24529	54897	A	24667	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILDFQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGHELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLFTDSRGSKMTIDGINSN DIYMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVFDANA GTESGHQGESSLFNRACGGGGT FFFSKESQKLQQSAKKRDCINA GHEMTKAIAIAQFNDDSPEARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGTRLKR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGSLLLPKND FLFKLGLEGHLPLGKIHSPPTGA DVARGSSGLPKSELFLPERNTQ ELQQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
24530	54898	A	24668	1	989	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHIV HRIGMAERMWCDRNRERHTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETAVINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPE/V GCRR*KRL*IFSLVYQTCAQSIQ RALQCTYQPISHSLLYRVTEPV

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24531	54899	A	24669	350	1203	LLTARLTWVSARLMSDFADFG TTIKQDFRLLGQTSVDRLLQLS QGQAVKGNQLLPVSLVKRKTT LAPNTQTASPRALADSLMQLA RQD/LALKGLRVLLVEGNDPQG TASMYHGWVPDLHIHAEDTLL PFYLGEKDDVTYAIKPTCWPGL DIIPSCLALHRIETELMGKFDEG KLPTDPHLMLRLAIETVAHDYD VIVIDSAPNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEPDVRILLTKY SNSNGSQSPWMEEQIRDAEGSR
24532	54900	A	24670	1	936	
24533	54901	A	24671	1070	1324	LGTPGGCSRMTCALVPLIPNDD TPTRRTRPLLGQGVFSVRS*TVP ADQSTSGDGDSTCNVRGSCPCR IAITILITPATPAAACV
24534	54902	A	24672	1	1212	
24535	54903	A	24673	2373	3381	FKRGQYGQLLRPRFHHGQILYA RRQGADAAGDSGIW/HGIWTEP MTM*KKDER*PSPTQAS*DNW KSIRGSCWQALSITRN/CKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHIINPYLIPFFIGLQNRFTQFRL SETKEITNPYAMRLYESLCQYR KPDGSGIVSLKIDWIIERYQLPQ SYQRMPDFRRRFLQHIFVLRER PETVLIDLIQRTKDAVRELDNL QYRKMKKLLFQEAHNGPAVEA QEEEEDD
24536	54904	A	24674	31	811	RRGLLGTRLRLSEDVFPPVLGV AAHKGGVDKTSVSVIILAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPELHIHAEDTLLPFYLGE KDDVTYAIKPTCWPGLDIIPSCL ALHRIETELMGKFDEGKLPTDP HLMLRLAIETVAHDYDVIVIDS APNLGIGTINVVCAADVLIVPTP AELFDYTSALQFFDMLRDLLKN VDLKGFEPDVRILLTKYSNSNG SQSPWMEEQIRDAWG\SMVLK NVVAFQNLEFLFILLRIWL
24537	54905	A	24675	1004	1105	

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24538	54906	A	24676	1	1139	MEKKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDIKK KLKTVKKNKHKFYPAFIHILAR LMNAHPEFRMAMKDVAEYNG YHVVFALAGSPKDADDTSIYM FYQKVGDNSIDSWKNAGRVFK DSDKFDANDPILKDQTQEWSGS ATFTSDGKIRLFYTDYSGKHYG KQSLTTAQVNVSKSDDTLKING VEDHKTIFDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGGTASSIRKSDG TLQEHDGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPE/VGCRR*KRL*IFSLVYQT CAQSIQRALQCTYQPISHSLLYR VTEPVYAVSA
24539	54907	A	24677	1	930	
24540	54908	A	24678	1	2486	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DKWPLANADGTVAEYNGYNV VDKFDANDPILKDQTQEWSGS ATFTCDGKIRLFYTDYSGKHYG KQSLTTAQVNVLKSDDTLKING VEDHKAIFDGDGKTYQNVQQL IDEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGGTNFFRKESQK LQQSAKKRDAELANGALGIIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGKWYLFTDSRG SKMTIDGINSNDIYMLGYVSNS LTGPYKPLNKTGLVLQMGLDP NDVTFTYSHFAVPQAKGNNVV ITSYMTNRGFFEDKKATFAPSF LMNIKGNKTSVVKNSILEQGQL TWLQVAKRAGLGGGQSGRTVL RERLPNYKNFKGTIQELGQNQY AVSGEIFVVDRNTVEITELPVRT WTQVYKEQVLEPMLNGTDKTP ALISDYKEYHTDTTVKFVVKM TEEKLAQAEAAGLHKVFKLQT TLTCNSMVLFDHMGCLKKYET VQDILKEFFDLRLSYYGLRKEW LVGMLGAESTKLNNQARFILEK IQGKITIENRSKKDLIQMLVQRG YESDPVKAWKEAQEKCDNLKT CHTSHGSVMAETAVINHKKRK

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24541	54909	A	24679	5	253	SAPKVWRGLRQQGAGISVLP*V CAQP/VQVAKAPELILNFDLPK KYFDKL/R/DTHFFSPHTGKFPT VKILMAPFANSASRGVALC
24542	54910	A	24680	334	842	PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFIAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNMDLADTVMFLVG GHKIFVFHCHTELRMSIHQAGK NVNKGRIKLVLIFLYGL*/QRP* YPAERSGYRYIEQLTEMPQNVL YDAIGIYQRWYIQ
24543	54911	A	24681	676	1169	DNLKTCHTSHGSVMAETAVIN HKKRKNSPRIVQSNDLTEAAYS LSRDQKRMLYLFVDQIRKSDGT LQEHDGICEIHVAKYAEIFGLTS AEASKDIRQALKSFAGKEVVFY RPE/VGCRR*KRL*IFSLVYQTC AQSIQRALQCTYQPISHSLLYRV TEPVYAVSA
24544	54912	A	24682	1	783	
24545	54913	A	24683	1	1884	
24546	54914	A	24684	1	1131	
24547	54915	A	24685	1	2856	
24548	54916	A	24686	528	725	
24549	54917	A	24687	1	898	
24550	54918	A	24688	1879	2343	
24551	54919	A	24689	1	1254	
24552	54920	A	24690	1	1113	
24553	54921	B	24691	1	1156	
24554	54922	B	24692	1	1980	
24555	54923	B	24693	1	1932	
24556	54924	A	24694	1	663	
24557	54925	A	24695	1123	1764	
24558	54926	A	24696	2	1772	
24559	54927	A	24697	1	1040	MELKTKARELREECRSLRSRCN QLEERVSAMEDEMNEMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANVQIQE IQRTPQRYSSGRETPRHIIVRFT KVEMKEKMLRAAERKCDNLK TCHTSHGSVMAETAVINHKKR KNSPRIVQSNDLTEAAYSLSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDEKSYEQPSKDIRQALKS FAGKEVVFYRPE/VGCRR*KRL *IFSLVYQTCAQSIQRALQCTYQ PISHSLLYRVTEPVYAVSA

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24560	54928	A	24698	1683	4289	RVFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWHSK ILVSGTHRARTEVEVTDPIHQQ RMGCCFTVGAGEICEKPTGCFF TPLPNCNCQWTGSAILDRRSHS IIPHSPASGSWVKVVTGSYQLT HSPGIGLRDFADFGTPHQTGFSP AGANQRGPLVATLSGPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AVSATQLMHFKILVSRAHRART ELEVTDPGSSAENGLLFPVVLL LRKARKTLMPPHSTCFIKRSAP TQSTAGKTRPRVLKDSDKFDA NDPILKDQTQEWSGSAPFTSDG KIRLFYTDYSGKHYGKQSLTTA QVNVSKSDDTLKINGVEDHKTI FDGDGKTYQNVQQFIDEGNYT SGDNHTLRDPHYVEDKGHKYL VFEANTGTENGYQGEESLFNKS VLRRRHELLPDFADFGPTIKQD FRLLGQTSVDRLLQLSQGQAV KGNQLLPVSLVKRKTTLAPNTQ TASPRALADSLMQLARQVSRLE
24561	54929	B	24699	1	2034	
24562	54930	A	24700	1	1038	
24563	54931	A	24701	1	1149	
24564	54932	A	24702	2	823	WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGRVFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQCDNLKTCHTSHGSVMAET AVINHKKRKNSPRIVQSNDLTE AAYSLSRDQKRMLYLFVDQIR KSDGTLQEHDGICEIHVAKYAE IFGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEK/ML*IFSL VYQTCAQSIQRALQCTYQPISH SLLYRVTEPGYAVSA
24565	54933	B	24703	1	1206	
24566	54934	A	24704	2	1037	
24567	54935	B	24705	1	1389	

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24568	54936	A	24706	1	602	MGTGDFICISMTGGAPWGFRLQ GGKEQKQPLQVAKWANLKPGP PSHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
24569	54937	A	24707	1	774	
24570	54938	A	24708	1479	1947	
24571	54939	A	24709	1	696	
24572	54940	A	24710	1	1773	
24573	54941	A	24711	1	1509	
24574	54942	A	24712	1	891	
24575	54943	A	24713	156	242	VAGRGIGYRLSPNKGL*TWSAL CKPIAE
24576	54944	A	24714	1441	1866	
24577	54945	A	24715	1	1098	
24578	54946	A	24716	1	1989	
24579	54947	B	24717	126	848	
24580	54948	B	24718	58	688	
24581	54949	A	24719	1	542	
24582	54950	A	24720	1	675	
24583	54951	A	24721	1	1209	MKMPEKHDLLAAILAAKEQGI GAILAFAMAYLRGRYNGVLEA RSLKSRCQQSHALAEGSRGGPP VTGRFKSTFTADSWNRYSLPSL TGGGNILHSRTHRRTVSRLLGR RWQELLRDVFGTRLRRAEDVF PPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNDPQ GTASMYHGWVPDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPA LDIIPSCLALHRIETELMGKFDE GKLPTDPHLMLRLAIETVAHDY DVIVIDSAPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEPDVRILLT/ KYSNSNGSQSPWMEEQ\RDAW GSMGLKNV/VRETDEIG\KGQIR MRTVFETAMDKRLLTGAWEK AFFFLEPGFEEKSNR

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24584	54952	A	24722	1	743	MIGMELPGLEGTELEGCHEREV VYDRVRVFEKRGEARHVEARS PGGGSEKRGWGGARHQRMCR KGADNGGAGRARRVARLRQL ASRAIGRRKGAVLYQTPVINHK KRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHDGICEIIHVAKYAEIFGLTL WREASKDIRQALKSFAGKEVV FYRPE/VGCRR*KRL*IFSLVYQ TCAQSIQRALQCTYQPISHSLLY RVTEPVYAVSA
24585	54953	A	24723	1157	1471	
24586	54954	A	24724	1	824	MEENERDLEINMINMSKELKVE NIKKHIGMLEKDEIEIIVTKSILI EIEIPTQCLRNLNTLHLAASAGN HMSNTACWYGCEDFTSVSTFA HQGVGSWDAYEPAASLLLSCD NLKTCHTSHGSVMAETAVINH KKRKNSPRIVQSNDLTEAAYSL SRDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVANYAEIYGLTS AEASKDIRQALKSFAGKEVVFY RPE/VGCRR*KRL*IFSLVYQTC AQSIQRALQCTYQPISHSLLYRV TEPVYAVSA
24587	54955	A	24725	996	1169	SLIDRIEALGIFRFAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS

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24588	54956	A	24726	3	1743	DSPE\ARKITRRWRIGEAADLV GVSSQAIRDAEKAGRLPHPDME IRGRVEQRVGYTIEQINHMRDV FGTRLRRAEDVFPPVIGVAAHK GNDPQGTASMYHGWVPDLHIH AEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSCLALHRIETELM GKFDEAQPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEPDVRILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTDTSLSTP AAPMVDSLIARVGVMARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQTPAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLDRSRVPTECIEKI EAILKELEKPAP
24589	54957	A	24727	1	1623	
24590	54958	A	24728	1	1863	
24591	54959	A	24729	1	2622	
24592	54960	A	24730	1	1338	

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24593	54961	A	24731	1	1823	MNMNIKKJVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNSIDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLVFEANTGTENGYQQEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEVYTK VFALDVAARHRCDNLKTCHTS HGSVMAETAVINHKKRKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPE/VGCRR *KRL*IFSLVYQTCAQSIQRALQ CTYQPISHSLLYRVTEPVYAVS
24594	54962	A	24732	1476	2221	

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24595	54963	A	24733	1	815	MRVGRKAVGAIWWSSKQELFQ QLFLRTELEDIGPGIVKRELGRE GSKDTGSSDDWEQLPDWKTKR VGNERDQELLIEDALDDLIPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAAALTESDYRVLVGEL DDEQMAALSRLGNDYRPTSAY ERGQRYASRLQNEFAGNISALA DAENISRKIITRCINTAKLPKSV VALFSHPGELSARSGDALQKAF TDKEELLKQQASNLHEQKKAG VIFEAEEVITLLTSVLKTVQSKN LSHFTWICHAETAVINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKHWVTISP QTSAYERGQRYASRCKNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLDRSRVPTECKRK LRPF*SGQRTDTAYVFDPGRDY

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24596	54964	A	24734	2	1249	DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQLAISGRI LFLPMLNSINKLAAPSQPCTEPF FRRDPTLHPKSEVRLPPKVTTIT VISNPILITPQEKSVAQCTYNQT VQLDITAFLKTVKKNKHKFYPA FIHILARLMNAHPEFRMAMKD GELVIWDSVHPCYTVFHEQTET FSSLWSEYHDDFRQFLHIYSQD VACYGENLAYFPKGFIENMFFV SANPWVSFTSFDLNVANMDNF FAPVFTMGKYYTQGDKVLMPL AIQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLPIDWIIERYQLPQSYQRM PDFRRRFLQVCVNEINSRTPMR LSYIEKKKGRQTTHIIRISDGTL QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDERGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY ESLCQYHLCGTLRNSRFCEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPE/VGCRR*K RL*IFSLVYQTCAQSIQRALQCT

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24597	54965	A	24735	1	2286	MLTLILLDLQFMAQLAGYQMS FNSTKSKQTKNNFAVGYRTGD FQLHTNVNDGAEFGGSVYQKV CEELDALINLAWTSSTSCTRFG LAAKFQLKPIAFISTKVNHWLT GVSYTPPLEAGVKLNLSALCDN LKTCHTSHGSVMAETAVINHK KRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY EIPVVSIRKPGMGSGIVSLKIDW IIERYQLPQSYQRMPDFRRRFLQ CINAGHEMTKAIAIAQFNDDSP EARKITRRWRIGEAADLLGVSS QAIRDAEKAGPLPHPDMENRG RVEQRGGYTIEPNNHMRDGVG TRWRRAEDVF\PPLIG\VAGHKG GR\YKTSVSVHLAQDLALKGLR VLLVEGNDPQGTASMYHGWV PDLHIHAEDTLLPFYLGEKDDV TYAIKPTCWPGLDIIPSCLALHR IETELMGKFDEGKLPTDPHLML RLAIETVAHDYDVIVIDSAPNL GIGTINVVCAADVLIVPTPAELF DYTSALQFFDMLPDLVKNRDL KGVEPDVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSVPVTPHTF

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24598	54966	A	24736	1	1400	MDAKMHSGGTAPPGTLSQRQP SSNSKTNGSKLNPLKDTLLSTPS CPEGELVNAARRSNGSGNAITL PVWGRDVKFTLEVLRGDSVEK TSRVWSGNERDQELLTEDALD DLIPSFLLTGQQTPAFGRRVSGV IEIADGSRRRKAAALTESDYRV LVGELDDEQMAALSRLGNDYR PTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGCDNLKTCHTSHGSVMA ETAVINHKKRKNSPRIVQSNDL TEAAYSLSRDQKRMLYLFVDQI RKSDGTLQEHDGICEIHVAKYA EIFGLTSAEASKDIRQALKSFAG KEVVFYRPEEDAGDEKSYEQPS KDIRQALKSFAGKEVVFYRPE/ VGCRR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP
24599	54967	A	24737	1	1628	MLHITNDQGNASQNHNAMPPY SCKNGHNLKTVDGGMDAVNG EHFYTAGLSQGPLKGSFLLFFNI LILVCPPIFRVSGNEVFIRDKLM ERRNRRTGRTEKARIWEVTDRT VRTWIGEAVAPLLLTCDNLKTC HTSHGSVMAETAVINHKKRKF SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIIERY QLPQSYQRMPDFRRRFLQVCV NEINSRTPMRLSYIEKKKGRQT THICDNLKTCHTSHGSVMAETA VINHKKRKNSPRIVQSNDLTEA AYSLSRDQKRMLYLFVDQIRKS DGTLQEHDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVFYRPE/VGCRR*KRL*IFSLV YQTCAQSIQRALQCTYQPISHSL LYRVTEPVYTISAY

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24600	54968	A	24738	1295	1675	SVTSCLKVTSVCLTSGRRFLQIR ISDGTLQEHDGICEIHVAKYAEI FGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEKGYESFP WFIKRAHSPSRGLYSVHINPYLI PFFIGLQNRFTQFRLSETKEITNP YAMRLYESLCQYRKPDGSGIVS LKIAWVIERYQLPQSYQRMPDF RRRFLQVSDFLMAPYRNIDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLCQY RKPDGSGIVSLKIDWIIERYQLP QSYQRMPDFRRRFLQVCVNEIN SRTPMRLSYIEKKKGRQTTHIE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE EDAGDERGYESFPWFIKRAHSP SRGLYSVHINPYLIPFFIGLQNRF TQFRLSETKEITNPYAMRLYQS LCQYRKPDGSGIVSLKIDWIIER YQLPQSYQRMPDFRRRFLQIRK SDGTLQEHDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVFYRPEEDAGDEEGYESFPWF IKRAHSPSRGLYSVHINPYLIPFF IGLQNRFTQFRLSETKEITNPYA MRLYESLCQYRKPDGSCIVSLK IDWIIERYQLPPRYQRMPDFRRR FLRVWVQEINSRTPMPPLLPWE
24601	54969	A	24739	1	1986	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24602	54970	A	24740	1	398	MVDSLIARVGVMARGNAITLP VCGRDVKFTLQVLRGDSVEKT SRVPPGNERDQEMLTEDALDD LIPSFLLTGQQTPAFGRRVSGVI HTADGSRRRKAAALTEKFCIVD NPPGEIRKRACLFIPTHALNLNR FEDICYAHQLPDGGLLSARVGV MARGNPILSPVCGRNVKFTLKV LRGDSVENPSRVWSGNERAQE LLTEHALDDLTLSFLLTGQQTP AFGRRVSGVIEIADGSRRRKAA ALTESDYRVLVGELDDEQMAA LSRLGNDYRPTSPVERGQRYAS RLQNEFAGNISALADAENISRKI ITRCINTAKLPKSVVALFSHPGE LSARSGNERDQELLTEDALDDL IPSFLLTGQQTPAFGRRVSGVIH TADGSRRRKAA/DTYRKILYR** PPGGD*KKSVPFYSNTCAQSQP
24603	54971	A	24741	1450	3699	RNPLQIPKQQQNEKYQVPQFDQ STIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNSIDS WKNAGRVFKDSDKFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHYGKQSLTTAQIFQ MITVFITSLCNTTSSHICLHISWV TTMHGAMPHPGHIPTAPASLPA KVKGSGKVCWLAFPLSELTPPS ALQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQHFIDEGN YTCGDNHTLRDPHYVEDKGHK YLVFEANTGTENGYQGEESLFN KAYYGGGTNFFRKESQKLQQS AKKRDAELANGALGIIELNNDY TLKKVMKPLITSNTVTDEIERA NVFKMNGKWYLFTDSRGSKM TIDVPQAKSTNVVITSYMTNRG FFEPEGSKGSITAAVMAKGLSV ASGNSTPERRRATANENVQPRA IRDAEKAGRLPHPDMEIRGRVE QRVGYTIEQINHMRDVFGTRLR RAEDVFPPVIGVAAHKGGVYK TSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWVPDLHI HAEDTLLPFYLGEKDDVTYAIK PTCWPGLDIIPSCLALHRIETEL MRKFDEGNLPTDPHLMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIVPTPAEQLDIS\SS RQFFD\ILRDLLKNVDLKGFEPD

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24604	54972	A	24742	1	3899	MVDSLIAPVGVMARGNAITLPV RATNVKFTLEELRGDSVEKTSR VWSEKKDRGGQEAEVSGEGSS QTKSLQKRQHSNGSDFTARGF HTGQALVRSKGTYWNPTGLGL SHGTEDPNLIGEELDAGEWDK NTRKELAVLNVRRDFADFGTTI KQDFRLLGQTSVDRLLQLSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQFWVFEGGLRVLVR ERVTTPKGT\ASMYQGW\VPD
24605	54973	A	24743	268	2617	RMFRMKLMETL\SQCINAGHE MTKAIAIAQFNDDSPEARKITR RWRIGEAADLVGVSSQAIRDAE KAGRLPHPDMEISGR\VKHGVG YTIEQIYL\TRDVFGTRLPRAED\ VFPPVIGVAAHKGGVYKTSVSV HLAQDLALKGLRVLLVEGNDP QGTASMYHGWVPDLHIHAEDT LLPFYLGEKDDVTYAIKPTCWP G\LDIIPSCLALHRIETELMGKFD EGKLPTDPHLMLRLAIETVAHD YDVIVIDSAPNLG1GTINVVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKTVDLKGFEPDVRILL TKYSNSNGSQSPWMEEQIRDA WGSMVLKNVVRETDEVGKGQI RMRTVFEQAIDQRSSTDTSLSTP AAPMVDSLIARVGVMARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQTPAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMALNLDRSRVPAYIIRSY IRCGRKGFASAGVGGCRGWLN YAASEQIVLRVHHMRCEIPHRC

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24606	54974	A	24744	1	2624	MTPQKRGYLCKAGARNLDVLL EGCEIFLLIPMGMRSESGVSDA DTVSAPRKKHSLEQGIFRAQVE ASKPSSVPACIVVGNVSGYQFP PGTSYGPDSESELGYREKFMSF VGTMNEAGNPPFSANYSKAKK PKPRMFSLIERMSPSPRVGSQSV QSSCFRDIPFEQDQMFPHPSLVL RSKEQQPLLTQSIGVNSARKAM AKRRRHRRRRRVSGVLPIA\VG VPS*SVHLPKVLSCSGASWI*QS CISRLGRLSPTRLMNVA\GNDP QGTASMYHGWVQILHIHAEDT LL/PFY/LGEKDDVTYAIKPTCW PGLDIIPSCLALHRIETELMGKF DEGKLPTDPHLMLRLAIETVAH DYDVIVIDSAPNLGIGTINVVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEPDVRILL TKYSNSNGSQSPWMEEQIRDA WASMV*K\NNVRNANEVGKDT LKGFYSLKERPLGNHFLGPNNR PFGKIMKHKTPAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSHPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGGFCRFRNHHQTGFSPAGA NQRGPLAATLSGPGGEGQSAV ARLTGEKKNHPGAQVANRLSP
24607	54975	A	24745	1	385	MWQAISRLLSEQLGEGEIELRN ELPGGEVHAAWHLRYAGHDFF VKCDERELLPGFTAEADQLELL SRSKTVTVPK\AFILGQQIARLH QWSDHAVLKIVTTGVL*GAYV GAPSIWKCPERITLPGYHQ
24608	54976	A	24746	1	1209	

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24609	54977	A	24747	1	857	MHACRSELLGEGEIELRNELPG GEVHAAWHLRYAGHDFFVKC DERELLPGFTAEADQLELLSRS KTVNRALKVWA\VGADRELTV FLV\MDYLPRPLDAHSAFILGQ QIARLHQWSDQPQFGLDFDNA LSTTPQPNTWQRRWSTFFAEQR IGWQLELAAEKGIAFGNIDAIVE HIQQRLASHQPQPSLLHGDLWS GNCALGPDGPYIFDPACYWGD RECDLAMLPLHTEQPPQIYDGY QSVSPLPADFLERQPVYQLYTL LNRARLFGGQHLVIAQQSLDRL
24610	54978	A	24748	1	2094	
24611	54979	A	24749	1	1209	MVREDLYTYYSCNTSREQQQL ENPMESPLCSKEINQGGVFMLA GKASDTLLAGGTMNNLGGEDS DTIVENGSIYRLGTDGLQLYSS GKTQNLSVNVGGRAEVHAGTL ENAVIQGGTVILLSPTSADENFV VEEDRAPVELTGSVALLDGAS MIIGYGAELQQSTITVQQGAPP VKLRFALYGRPGFTKCGWMLG YKPAHDKTLLRITRGHDFACYQ RTTQLARQRGLKVCSHLIVGLP GEGQAECLQTLERVVETGVDGI KLHPLHIVKGSIMAKAWEAGR LNGIELEDYTLTAGEMIRHTPPE VIYHRISASARRPTLLAPLWCE NRWTGMVELDRYLNEHGVQG SALGRPWLPPTENSLMKQIRLL AQYYVDLMMKLGLVRFSMLL A\WPSSFLPLWYKWR
24612	54980	A	24750	200	310	
24613	54981	A	24751	1	4398	MCIPVPPIATGDRHFIAVAHIHQ NSRRSPVDSDESSTRSAVAAHP ATRDFNVRALYTVTSSVSPTKP PLPATFRQGRYRPAEPCVGSIG VIPQSSCVLANGSTGAQSAFGDI IRAGPPSAGLVPVAQATVIETFL RYQTINERDFWAARNRLLKQP YGSRILRFTEAYAIAERAAQSV LRISLADAFNVDGPRPAEDSIFR LLRMPGSAVQRPDRRHNRRCQ YRPAMAFPAGSKANKQRQYNG GRQFYRKRICWL

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24614	54982	A	24752	939	2169	RPASPPARDGARWSTGLHSSYS AMRCRNASTCAEDSQLS/DPLA R/PSVASGPYRVTSWKLGQNIV YCRVKDYWPATLTVNRGRWN FDTIRSDYYLDDNVAFEAFKAG AFDLRMENDAK\NWATRYT/G DRRVREAITLAFDFEWMNKAL FYNAWSRTNSYFQNTEYAARN SPPPPEL\VLLPPIKKVLPSEVFP\ QIYQPPVSKGDGYDRDNLLKA DKLLNEAGWVLKGQQRVNAT TGQPLSFELLLPASSNSQWVLPF QHSLQRLGINMDIRKVDNSQIT NRMRSRDYDMMPRVWRAMP WPSSDLQISWSSEYINSTYNAP GVQSPVIDSLINQIIAAQGNKEK FLPLGRALDRVLTWNYYMLPM WYMAEDRLAWWDKFSQPAVR PIYSLGIDTWWYDVNKTAKLPS ASKQGE
24615	54983	A	24753	3	450	
24616	54984	A	24754	2	203	PLPDAARYLRRQCQKPARVHDI FAAMHTAHRSRPDRPSLPDDAF SSLRL*FFQPEHYPRQYQHRHL CS*ERYQHQALSRTRFRSG*PTP SVPETSTGSRYFCGNAHSAPKP PRPPITTGRRVFFTTPLILPTRAL PASISTPASL
24617	54985	A	24755	1016	1219	
24618	54986	A	24756	1695	2021	PDTFSMLPATRFLPPLQFPDLQH PEAAQYAHWLPASGCFLFLPPP GSGTVFLLPYPSPRLCRSTSETP LPAITR*HFPVTDRVQK*ITRRR KPRHKPFYPDDLQRDAR
24619	54987	A	24757	1671	1911	
24620	54988	A	24758	513	1104	CWRNCARCERNLVFRCQYGIY WCDNAANRSCRTKRDQPRLVE W*KSACSHHR*LH\PCGHCRQF MNELNSGLDLRIHLPGREAHAL RDYLPDAFGPKDLEIKTLLMDE QDHGYALTGDALSQAAIAAAN RSHMPYSKSPSGVALECKDGRI\ LVAATLKTPII/INPTQICGQPWS MHRRALTSKFGAHGDRRTSAG FRRN
24621	54989	A	24759	131	759	
24622	54990	A	24760	662	889	LPIKCRAARGVPARCLRWTRW ALRRILPPLRNRSRAASRWRAS PGARK*WMPSLQAVWAAPMR VTRLPAWLRWKC

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24623	54991	A	24761	1	1518	MQRRDGDIALIYRSKIGPRTSIT FTARRANPVQRIAARILLRDHLI CRMSCTAARHANTFDLIQGSG ADNFAAIYGGANDRITRADAA VAGAGNWHRFGISNGKLSPRSI TRTSSPARAMTKMPYNPQASG GSNLAVSNPELDKLIAARVAAL RAANPDASASVPVELVTASASY PRSLMRCNRILSPGSARGQMIIT ALFIYAGNPIACVAALEVLKVF EQENLLQKANDLGQKLKDGLL AISFWRAKWLKIFVVCGAEIFV EYVLKNKVIWLLCFANIFLYVV RIGIDQWSTVYAFQELKLSKAV AIQGFTLFEAGALVGTLLWGW LSDLANGRRGLVACIALALIIAT LVIPFHMVFHPNEQYAYCVNEL NSSVDVWELKDPHGNIECVQT LDMMPENFSDTRWAADIHITPD GR\HLYACDRTASLITVFSVSED GSVLSKEGFQPTETQPRGFNVD IISGKYLIAAGQKSHIISVYEIV GEQGLLHEKGRYAVGQGP\MW
24624	54992	A	24762	3	486	ACRRALKD\AGVEADEVLEVV MVGGSTRVPLVRERVGEFFGRP PLTSIDPDKVVAIGAAIQADILV GNKPDSEMLLLDVIPLSLGLET MGGLVEKVIPRNTTIPVARAQD FTTFKDGQTAMSAGGAHIRVTF QVDADGLLSVTAMEKSTGVEA SIQVKPSYG
24625	54993	B	24763	1	2469	
24626	54994	A	24764	1255	1761	ESFQVRTHGTGEPVNKTRTSQA VSHHNQSCQVDQCVPCAVIAG NVFPRHNVQGQH*RNCQQTNR SSINDFTKLSNTRPISVHSLGIKQ SRPDRHAKASPVVTAVKACEQ VIAAVNQIADDHQPDRTKQRN AIVVADDLPDLFPVHFFGVDHQ QHNHRDKKQPGEDLLCC
24627	54995	A	24765	1	3141	
24628	54996	B	24766	1	3969	

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24629	54997	A	24767	643	2082	GAHAMDKHFSTTPAEKNLPVL LALIGIWYNNFFDKNDALVMV DDFPRRSGLSWKIVVVPHEYW VGGSTRVPLVRERVGEFFGRPP LTSIDPDKVVAIGAAIQADILVG NKPDSEMLLLDVIPLSLGLETM GGLVEKVIPRNTTIPVARAQDF TTFKDGQTAMSIHVMQGEREL VQDCRSLARFA\CVVFRRYRL/A GAHIRVTFQVDADGLLSVTAM EKSTGVEASIQVKPSYGLTDSEI ASMIKDSMSYAEQDVKARMLA EQKPGQQEAKLALKTFHWQQA IADKRVIGAGITGVTAGTDHRA DVTEVASDFRVQTTNADSALF HVRSAQQHIHQLLHFTTHLLCQ LAGLDHVVFQQIATNPADQVQ AVGFTRTGKDLCHFHGGFTHA EELHKAGVEAGKVTGQAKVEQ MRVQAFYLQQNGADHLRTFW HLNTHRVFHRRGVGGAVGKA ADPAHTVREEGHFVITHTGFRQ FFHAAMDVEQ
24630	54998	A	24768	1	502	

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24631	54999	A	24769	1	2345	MFMIGALVLALVMTLITFMVL RRIVIRPLQHAAQRIEKIASGDL TMNDEPAGRNEIGRLSRHLQQ MQHSLGMTVGTVRQGAEEIYR GTSEISAGNADLSSRTEEQAAAI EQTAASMEQLTATVKQNADNA HHASKLAQEASIKASEGGQTVN GVVKTMGAMSTSSKKISEITGR HQQGIRTPVTAVKGRCPGPLDE GDTDTAYYALRDIFALTPNRKR LAIPVSTDNPGKPCKDPSLSKD VSNRVPQRVPCYDSPRSSSVNG NRLPGKDFHDDERSMGRSGSY VLALAYPPKIALSDADSVTVNV AGWQGEISREQFNELIAPLVKR TLLACRRALKDAGVEADEVLE VVMVGGSTRVPLVRERVGEFF GRPPLTSIDPDKVVAIGAAIQAD ILVGNKPDSEMLLLDVIPLSLGL ETMGGLVEKVIPRNTTIPVARA QDFTTFKDGQTAMSIHVMQGE RELVQDCRSLARFACVVFRRYR LAGPVDLFLRPWEVDISRRTSL DSPLPVQVLEASPKGHYTQLVV QPLGWYNEPLTVVMHGDDAP QRGERLFVGLQHARLYNGDER ASRDPGFLMARFVTCRPDKTRK LRIRQHHVWIEIVSTLEQTIGNT PLVKLQRMGPDNGSEVWLKLE GNNPAGSVKDRAALSMIVEAE KRGEIKPGDVLIEATSGNTGIAL AMIAALKSYRMKLLMPDNMSQ
24632	55000	A	24770	313	676	DCQPRSSAFTKPDATTAGHYLA GSGGRMTQLAIGKPASLGAHLE REGGENFTFFSLNADGEKL/CVF DANGQ/EHRYDLPGHSGDIWH/ G/YLPDARPALRMVSRH/GP/WQ PAGGMLTPAVVMILPRK
24633	55001	A	24771	1760	2053	FRVHGKNAFSH*IKPAAMLLPS SPVTRSVKPTQCGSAPSKRPNL TLLPSITLMPPLPVTDLKLGCIA PCSSDCFSFITFSISCATRLSVNW LPAAGQ
24634	55002	A	24772	296	732	
24635	55003	A	24773	606	695	
24636	55004	A	24774	1520	1737	PVHGLCGTRRDAGS\PAIYPFHS LML/RFWLR/TCTVPGWPLDDS SLAGEAFSAFTTDAAVWSLISA TAMLAVQAG
24637	55005	A	24775	1	1049	

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24638	55006	A	24776	248	933	RTTMRAVSRPKYCSRERWL/HY DFTVARFDENASCGTFAATSAV VLIFSHCLRLLCRVVVLVTRVN FQFTEHSTTQRAFWQHAFNRDF NHTLRTASNHLFKGRLFDTTDV AGVVIVHFVSTLVAGYSNFVSV QNDDVITGIYVRSVFRFVLTAQ ATSQFSSQTAQSFTGRVNNIPV AFYGFWFSCAKYYRHGARWCS NGRKIDQRHTHCFFCPCIRTDFA VEIGKEEFIT
24639	55007	A	24777	219	3441	DCQPRSSAFTKPDATTAGHYLA GHSGDIWHGYLPDARPGLRYG YRVHGPWQPAEGHRFNPAK\LL IDPCARQIDGEFKDNPLLHAGH NEPDYRDNAAIAPKCVVVVDH YDWEDDAPPRTPWGSTIIYEAH VKGLTYLHPEIPVEIRGTYKAL GHPVMINYLKQLGITALELLPV AQFASEPRLQRMGLSNYWGYN PVAMFALHPAYACSPETALDEF RDAIKALHKAGIEVILDIVLNHS AELDLDGPLFSLRGI
24640	55008	A	24778	454	586	
24641	55009	B	24779	130	1557	
24642	55010	B	24780	92	2808	
24643	55011	A	24781	2	1051	WRLRPITPLWRWQKIFFPDA/R YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYYVRKHPIFI DLTTEELAASSYHESWVLEDRII KDGSYNIDQGVGVRAISGEKTG FAYADQISLLALEQSAQAARTI VRDSGDGKVQTLGAVEHSPLY TSGRSGWQSMSREEKLDILRRV DKVAREADKRVQEVTASLSGV YELILVAATDGTLAADVRPLGK VLLVGQSPNAELSARAKQIAM GVDGANEVYNEIRQGQPIGLGE ASNDTWITTKVRSQLLTSDLVK SSNVKVTTENGEVFLMGLVTE REAKAAADIASRVSGVKRVNR TLFLGYAVMFSELILAPVTPSNS
24644	55012	B	24782	1	2079	

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24645	55013	A	24783	1	3214	MGAEKQLIPDGCGVSYIPSSGP LDKWRALLFIQPDYRADPVYR QHTITDLRILYDYTENFVLPLSH DEVVHGKKSILDRMPGDAWQK FANLRAYYGWMWAFPGKKLL FMGNEFAQGREWNHDASLDW HLLEGGDNWHHGVQRLVRDL NLTYRHHKAMHELDFDPYGFE WLVVDDKERSVLIFVRRDKEG NEIIVASNFTPVPRHDYRFGINQ PGKWREILNTDSMHYHGSNAG NGGTVHSDEIASHGRQHSLSL
24646	55014	A	24784	1	1079	MKQIKELQRLLGKKTWKMNSS KKPLNMDGPKVDSARALIGRG WGTHKFYRCDCIKPTIKTNTSS RGNEKNPDGSHNNIHNSWFRL LTSQNMCKVPESPAILVDVGQS AETVQSVLTVKVEHPILRIAVA GYACQRQSCLLAMRHPQYAIN SSKVVKPCSTARQPFQKAYAYP PVVRAFPAINVGISGNKLTNDR RYGRTSNKAWGSGDGHTLSEC GWAPLAAGDNVGKVSYQTLG YYQRILGYIFYPIAW/VMGVPSS EALQVGSIMA/TKLVSNEFVAM MDLQK/IASTLSPRAEGIISVFL/ VSFANFSSIGIIAAAAECRDWFG ILAAQTLAVRAALRVVQAERD CVLSMEQHQCARGRQR
24647	55015	A	24785	121	258	LTEPRHYCRSIQFFGLTNMGQN CYQLS*E*FIGTLNHIRRIPQPLS
24648	55016	A	24786	1	470	WGSGDGHTLSECGWAPLAAG DNVGKVSYQTLGYYQRILGYIF YPIAW/VMGVPSSEALQVGSIM A/TKLVSNEFVAMMDLQK/IAS TLSPRAEGIISVFL/VSFANFSSIG IIAAAAECRDWFGILAAQTLAV RAALRVVQAERDCVLSMEQHQ CARGRQR
24649	55017	A	24787	1324	1539	GWCGCEVPFKITDGLACLLQSP QGHQTFCFT*HNLGLQPFWIPM CLCSVNVFKTRLILTQVEEGCR AVSMTQ
24650	55018	A	24788	71	403	RTTFIFDLSSGWPFILWQVLSPN *RCLQVGLFAQIPTGRMGCLHR FLTCRMGVCTDSSPAGWAVTLI RMSPIFPASSKSTLSAALLNTSC LHSRDLEPPGAFRSGGPVLL

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24651	55019	A	24789	309	1653	SVLMDESDIYRNNRERFFCVFL LVGVPARGACLGGGGGCGLCV RYLRSAGWGCGRRFPCVGDN WSAILAHIGKPEELDTSARNAG ALTRRREIRDAATLLRLGLAYG PGGMSLREVTAWAQLHDVATL SDVALLKRLPKCRHWFGILAG QTLAHIRVLPVIIRAIGFLLSKV NGMGKLESFNAVSSLILGQSEN FIAYKDILGKISRNRMYTMAAT AMSTVSMSIVGAYMTMLEPKY VVAALVLNMFSTFIVLSLINPYR VDASEENIQMSNLFEGQSFFEM LGEYILAGFKVAIIVAAMLIGFI ALIAALNALFATVTGWFGYSIS FQGILGYIFYPIAWVMGVPSSE ALQVGSIMATKLVSNEFVAMM DLQKIASTLSPCAEGIISVLLDSF ANFSSIGIIARAVKGLNEEQGNE GSRFGLKLVYRSTLVS\VLSASI AALVLSDHT
24652	55020	A	24790	754	957	
24653	55021	B	24791	75	3707	
24654	55022	B	24792	75	264	
24655	55023	B	24793	344	461	
24656	55024	A	24794	1	2203	
24657	55025	A	24795	20	198	
24658	55026	A	24796	1239	1409	RGPPTPFFHVWEWQQRPLSVW EADHV*RRDEGACPRMVARAR NCRPKLLELRAESQ
24659	55027	A	24797	1325	1564	
24660	55028	A	24798	323	694	TGYARQKPVPALGWWTNVSAS TAPPIILPSITGSRLAVIKWLTVS AGKLSALLCASCQKGGGAKWR MAMANGITNKLAIQCSPPHSTI EKFTSQSQHVLA*GVSAVRSM VSSG*GRRPLPALG
24661	55029	A	24799	4708	4878	
24662	55030	A	24800	20	199	
24663	55031	A	24801	743	1186	

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24664	55032	A	24802	1394	2651	KLMTCRHEGSLGDDPGINGQL WDVNRIDVTAHEGTWERWTV RADEPQAFHIEGVMFQIRNVNG AMPFPEDRGWKDTVWVDGQV ELLVYFGQPSWAHFPFYFNSQT LFSWPQYWAACFGPAPFLPMS REEMDQLGWDSCDIILVTGDA YVDHPSFGMAICGRMLEAQGF RVGIIAQPDWSSKDDFMRLGKP NLFFGVTAGNMDSMINRYTAD RRLRHDDAYTPDNVAGKRPDR ATLVYTQRCKEAWKDVPVILG GIEASLRRTAHYDYWSDTVRRS VLVDSKADMLMFGNGERPLVE VAHRLAMGEPISEIRDVRNTAII VKEALPGWSGVDSTRLDTPGKI DPIPHPYGEDLPCADNKPVAPK KQEAKAVTVQPPRPKPWEKTY VLLPSFEKVKGDKVLYAHASRI LHHETNPAVPAH

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24665	55033	A	24803	1	2126	MQEKQVLAAYVQPSSEGQSRS RRARRVSQCHQHSAAAASLAR TAASATADSAHPPCPRSAARAG ATMHVKKYLLKGLHRLQKGPG YTYKELLVWYCDNTNTHGPKR IICEGPKKKAMWFLLTLLFAAL VCWQWGIFIRTYLSWEVSVSLS VGFKTMDFPAVTICNASPFKYS KIKHLLKDLDEIMEAVLERILA PELSHANATRNLSFSIVNPTP\L VLIDERNPHHPMVLDLFGDNH NGLTSSSASEKICNAHGCKMA MRLCSLNRTQCTFRNFTSATQA LTEWYILQATNIFAQVPQQELV EMSYPGEQMILACLFGAEPCNY RNFTSIFYPHYGNCYIFNWGMT EKALPSANPGTEFGLKLILDIGQ EDYVPFLASTAGVRLMLHEQR SYPFIRDEGIYPMSGTETSIGVL VDKLQRMGEPYSPCTVNGSEV PVQNFYSDYNTTYSIQACLRSC FQDHMIRNCNCGHYLYPLPRG EKYCNNRDFPDWAHCYSDLQ MSVAQRETCIGMCKESCNDTQ YKMTISMADWPSEASEDWIFH VLSQERDQSTNITLSRKGIVKLN IFFQEFNYRTIEESAANNIVWLL SNLGGQFGFWMGGSVLCLIEFG EIIIDFVWITIIKLVALAKSLRQR RAQASYAGPPPTVAELVEAHT NFGFQP\DTAPRSPNIGP\YPGEQ ALPNPG/TPAPPNYDSWRLQPL
24666	55034	A	24804	905	1051	
24667	55035	A	24805	1	1257	
24668	55036	A	24806	1	3116	MPIITLPDGSQRSFDHPVSVAEV AQSIGAGLAKATLAGKVDGRLI ITPKDEEGLEIIRHSCAHLVGHA VKQLYPTAKMVIGPVIEEGFYY DIFFERPFTPEDMAAIQQRMRE LIDKDYDVIKKMTPRAEVIELF KLQAAPDRRHAGREGHGLYFH EEYVDMCRGPHVPNTRFLKAF QLTKISGAYWRGDSKNEQLQRI YGTAWADKKQLAAYIQRIEEA EKRDHRRIGKQLDLFHLQEEAP GMVFWHPNGWSVYQ
24669	55037	A	24807	1924	2790	
24670	55038	A	24808	1	1185	

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24671	55039	A	24809	823	5990	MARPVPLWSSWGLRTSYLPKP LSVNPSRNDGSA/FAGTHPLGV TRGTLAGPAFVRLSLVFLLRRV LAGSSLLPLLMG*QK/PEVLLPD GASEHDYSLRPSDVKRLQNAD LVVWVGPEMEAFMQETGKQIT RSEVSPLCRRVAFNKFNRDPQP RVDWGRLTVLYSGSSLSGGRY VVIIRECHCQLSKPLRLEQNEIR SLLPEASEPIDQAAQEDEAIPQD ELDDKIAGEAGVHEYVVSTGD TLSSILNQYGIDMGD
24672	55040	A	24810	2305	2550	
24673	55041	A	24811	665	844	ISFNNEVISYRLSGKNQ*LNLG* EIWLESGAFKKALSPQKHPGLE PSVCTPTPTLVPDR
24674	55042	A	24812	1	2031	
24675	55043	A	24813	106	912	HFETVIDQRDFHPVFSHKGIRAT PEGNEEKGQRVADVTEQCGRC RCQPPAATLTQAVKNVHVEDL PQRVGHETGGGDTGDKQVEVG ECAESHTLDALGLRCPEPVMM VRKTVRNMQPGETLLIIADDPA TTRDIPGFCTFMEHELVAKETD GLPYRYLIRKGG**GLIGFDAAF SPHPNPLPRGARGPIALNVAIGL PYLLRNNLNAFAVTSTVAPVSA STASHNPVIQRGDEEDPFQPQR NSDVLADIGVSGACQFNHLHQ AAQVVMG

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24676	55044	A	24814	1	1495	MQKLTLTYAETRRLYGKEVYH RPSRFIGELPEECVEEVRLRATV SRPVSHQRMGTPMVENDSGYK LGQRVRHAKFGEGTIVNMEGS GIAALCHCRVLIATAALMDPDD AVELSVTTMMFALCNTRNPRV AWDTAPCVPATTAASMAKRAP DMSQSAAPEAGSQKPPRLSCGE SLHPLPATKRAYNYCRPVGRIR HLCRIRQSMPDATLSRLIRPTTV ADPPDKALAPHPAVFTRGDSKF LSHKPARSPAIRYLLASVWGPV GMMAMMLAMTGFVVATRKLR RRFGFKSCKNGVLYRISSSSITT SPASPIATCRPVLPCWMRMDPM LDMMGMQMLMEKYGDQAMA GMDHSQMMGHMFLGHKVIRA NHVGDWGTQFGMLFRIAVETF KEDWEAVWDQLDDLNLEGKIV A*GRDPAAFHIDNGAFTKLSVA YALAELVAAVVLDHRRTHPLM ADRAAYRGAQAHLFHTLFRQL ADKARRAMVNLFTIQTAGFRV GQRQFLH
24677	55045	A	24815	3	707	GCTLGPVKSFSLRVAWLSWPQ YFYIIERACSPCCGPLAPGEAPH VNLFHSTHSENKKQPHNSPYHN DIQPTLNYLPTNQKKQTQQEQS IHNITKQGSQLHDVTQVPYQAY RSAIVVGLIRRDSVASGIDCRM RRERLIRPTGRASDNTEFTGTQ NMQNITHSWFVQVMIKATTDA WLKGWA*AQRRQPDATPG*RR YRTISRQFPATSVLYPAQPAHA FTGKYTVYCHRLGQILP
24678	55046	A	24816	2	1340	
24679	55047	A	24817	1	2457	

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24680	55048	A	24818	41	1053	QRNQQAHLSF/QHSRDIYDNQV HLVRNCNLEMPDQEFIVLYGPS DCGKSTTLRMIAGLEEISGGDL LIDGKRMNDVPAKARNIAMVF QNYALYPHMTVYDNMAFGLK MQKIAKEVIDERVNWAAQILG LREYLKRKPGALSGGQRQRVA LGRAIVREAGVFLMDEPLSNLD AKLRVQMRAEISKLHQKLNTT MIYVTHDQTEAMTMATRIVIM KDGIVQQVGAPKTVYNQPANM FVSGFIGSPAMNFIRGTIDGDKF VTETLKLTIPEEKLAVLKTQEV CPDHTLDALGLRCPEPV/HDGA QNRAQYAAWRNVADYRRRSG HYPRYSWVLYLYGTRTGC
24681	55049	A	24819	3	131	
24682	55050	A	24820	247	492	
24683	55051	A	24821	2	241	YFFQKSSKTVIGGRRLCSVFRY QFSIVLATC*GTFFPSR*STILS* VTQSATSSGREGRSSSRSLNGRF MFSIASMMSW
24684	55052	A	24822	1	1143	

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24685	55053	A	24823	242	2151	FSRQHVVKMKHCCKNVVILMP EPVAEPALNGLRLNLRIVSIVMF NFASYLTIGLPLAVLPGYVHDV MGFSAFWAGLVISLQYFATLLS RPHAGRYADSLGPKKIVVFGLC GCFLSGLGYLTAGLTAVCLSSA VILCRGVQLHPVSDLRIPRGEK AGRNRSVDGCCFKAMSVIIVG GGMAGATLALAISRLSHGALPV HLIEATAPESHAHPGFDGRAIAL AAGTCQQLARIGVWQSLADCA TAITTVHVVELHNVGQRLFA\L LRKAPGVTLHCPDRVANVART QSHVEVTLESGETLTGRVLVAA DGTHSALATACGVDWQQEPYE QLAVIANVATSVAHEGRAFERF TQHGPLAMLPMSDGRCSLVWC HPLERREEVLSWSDEKFCRELQ SAFGWRLGKITHAGKRSAYPL ALTHAARSITHRTVLIQSERLNH KALEKRTLTVWDNSFLIYRQSD VSEIRLASLFASFSIRKSKQQAR KHTNRRSKDKEKRTRQKRKTT SRQRRRRQRMVRVGDEQIAGC HCLYSTGSPNRQLREAGIELSDF VRGNEKARERMKAQYSIAGMT SGVVVGTDHAAEAITGFFTKYG DGGTDINPLYRLNKRQGKQLL AALACPEHLYKKAPTADLEDD
24686	55054	A	24824	2	91	
24687	55055	B	24825	1	2346	
24688	55056	A	24826	1	1713	
24689	55057	A	24827	1	918	
24690	55058	A	24828	415	816	
24691	55059	A	24829	72	296	FCSATFGRPSDQYQNGE*LRWR GLGSFACQSPAHENPQWKFVL ARRGFARGTAEAHPSQYRHWC KIHRLNPGLR
24692	55060	A	24830	1	620	

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24693	55061	A	24831	1625	2460	GVVNPRQGRVLSMLPAMLLYL LFFLIQTSLKSNGGKGKLDPTL WMWTVNLIYLALAIVLNLWDT VPVRRLRASFSRKGARIPFVGC RETCELPQIELVKMMLGRELDT HALQRAGRTLLSDKPVAAFKN YGKKGTIAPFDLEVRPGEIVGL AGLLGSGRTETAEVIFGIKPADS GTALIKGKPQNLRSPHQASVLG IGFCPEDRKTDGIIAAASVRENII LALQAQRGVCYVPFPAKNSKRL PNALSASLAFAHLQLNNRLNFS PAAISKKCCFYVGY
24694	55062	A	24832	1	2034	
24695	55063	A	24833	3839	3970	
24696	55064	B	24834	694	765	
24697	55065	A	24835	1778	1982	
24698	55066	A	24836	1	268	MTCRLLTRLPGQAGVGKRVSG VPDELSPLFSVGSRYLQGGVGL VSPTSGANVGLPVISTNNLVKE CR\DGKWKMTEKGCLNMFHFK
24699	55067	A	24837	568	713	
24700	55068	A	24838	217	1910	AFTFQESVMAFSQAVSGLNAA ATNLDVIGNNIANSATYGFKSG TASFADMFAGSKVGLGVKVAG ITQDFTDGTTTNTGRGLDVAIS QNGFFRLVDSNGSVFYSRNGQF KLDENRNLVNMQGLQLTGYPA TGTPPTIQQGANPTNISIPNTLM AAKTTTTASMQINLNSSDPLPT VTPFSASNADSYNKKGSVTVFD SQGNAHDMSVYFVKTGDNNW QVYTQDSSDPNSIAKTATTLEF NANGTLVDGAM/ANNIATGAIN /GLSFLNSMQQNTGANNIVATT QNGYKPGDLVSYQINDDGTVV GNYSNEQTQLLGQIVLANFAN NEGLASEGDNV\WSATQSSGVA LLGTAGTGNFGTLTN/GSIESGI AFLVNVPLNPKLKKRVNVAGAR WHPYGWPAFAERACLIEPEGD RRTHHRPNNQRTYSRKTQRQG GHKTRQDNWEQKGDGGPRPEP TDPHQHDANRPTVATKKRRKS TQSQRNHRNPKGTHPTEEHGT AGTTKPPDTPQTDNWTHKGSL REGKANRKRNPLRGAEVAGGG KQRAKAERQTQRGERREDVDE GEEDRSKKTEK
24701	55069	A	24839	500	653	

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24702	55070	A	24840	445	849	GSPGTAGTEVAVVLKIGGVHD KVIGHYRCSTTNTGRVLDVA1/S QNGFFRLVDSNGSVFY/SRNGQ FKLDENRNPATGTPPT/IQQGAN PTNISIPNTLMQRKPTAGQIVLA NFANHEGLASEATTSGLRRNLL AWRCM
24703	55071	A	24841	1	453	MKQMDTRGKVINCAFAVSAAF ALGDHLGFAAANMNAMIFPMI VGKLIGGVTAIGVAMMLVPRY EFIKREISWQSPVFFTPVDKQGG LKEAELKTLILEQYHAAGIEPES VDSGAIIITGESAKTRNAR*TGR FKRSGTENL\KLEQYHAAGIEPE SVDSGAIIITGESAKTRNARPTV MALSQSLGDFVVASAGPHLE
24704	55072	A	24842	370	670	YSSNIMLRVLSRKALILVPSSSP VKARKPAMLARRGWRSLSRW AILSLPGPGR*TGRFKRSGTENL \KLEQYHAAGIEPESVDSGAIIIT GESAKTRNARPAGMALSQSLG DFVVARAGPHLESVNAGYRTRI RNHGHSWFPGEIGIRSQFPHTLR TGSINGKAWGA
24705	55073	A	24843	1	1623	
24706	55074	B	24844	1	4986	
24707	55075	B	24845	65	726	
24708	55076	A	24846	4107	4460	FMSTCGYGGGLSRFPARCLSYQ PLRSWRETVAASG*RRTGSARA NCFCFSGLTRDFSIWRPETK*SA QTFVVGTWRCGGMGR*IAAVL SRYSTVESGVSSTHHRLPLQPDI PSGRRL
24709	55077	A	24847	624	895	PLVPAYKQSQRQKPHDYLNRC RKSL*QNSTTLHAKNSQ*IRY* WD/SISE**ELSMTNPQPISY*MG KNWKHSL*KLAQDRDALSHRS YST
24710	55078	A	24848	1434	1594	
24711	55079	A	24849	1294	1488	PAGKQTQQQRQQFANDGRGEI WRKLIKPNPRRQKS*CSTDPRQ KSTLISQREAVIRRFSEAGNFH
24712	55080	A	24850	595	879	RRCSTTNIIKKIQQDKKGNRKA VHRSRFVHGRPITLLFFQLSGRI QSHRLPGRAALFAGIPAACDQS PSLRQPISSEWSDGR*HRRIFRS* SEEF

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24713	55081	A	24851	1009	1478	YSLSVSVWAGATVMESPVWM PIASKFSIEQTMMQLSFLSRTTSI SYSFQPISDSSISNSLVGERSRPR AQISSNSSRL*AIPPPLPPMVKD GRIMHGKPTSAATASASSIVCAI PERAVSRPIFFIATSKRRRSSALS IASAVAPIMVTPNSSNTP
24714	55082	A	24852	48	209	GLFQVGYAENCRDNNHSFSLH SVVIGSSSERVVAKK*PDADHF SASFVPVILK
24715	55083	A	24853	1358	3194	PTASFAATLAIGKPVAFDASAE ERDTRGFISITIRRPFFGFTANVT RLETERGGICSRSVPWEVVSKI AWAEAPDPPGVTILGLKTQHAT /VSERVTSRFTRSHYRQFDLDQ AFSAKIFDRYLNLLDYSHKRKT ELGDEAAFSAKLDVFYDLYNL AQKRRFERYQYALSVLEKPMD FTGNDTYNLDRSKAPWPKNEA ELNALWDNVFSLAMTAFAREI DPHTNYLSPRNTEQFNTEMSLS LEGIGAVLQMDDDYTVINSMV AGGPAAKSKAISVGDKIVGVG QTGKPMVDVIGWRLDDVVALI KGPKGSKVRLEILPAGKGTKTR TVTLTRERIRLEDRAVKMSVKT VGKEKVGVLDIPGFYVGLTDD VKVQLQKLEKQNVSSVIIDLRS NGGGALTEAVSLSGLFIPAGPIV QVRDNNGKVREDSDTDGQVFY KGPLVVLVDRFSASASEIFARD VVVGLCICLSSLDVWLCGLFCR CSVDAERTKRQGKKGEESRKR RRKGYELSYLLFGWSAVVLLF VSDAEQHRASRHGGNACQQHP DVRHDEADGYPRQSHQLRLRR FRCFRPGRPLRLRRCQHERHDL PDDCRQVDRRRNGDWRGDDA
24716	55084	A	24854	100	671	
24717	55085	A	24855	852	1335	YFCFWTYPLLFPVCMDRKAGK HGVAPAGDLYVQVQFNSHPIFE REGNTLYCEVPINFAMAALGGE IEVPTLDGRVKLKVPGETQTGK LFRMRGKGVKSVRGGAQGDLL CRVVVETPVGLNERQKQLLQE LQESFGGPTGEHNSPRSKSFFD GVKKFFDDLTR
24718	55086	A	24856	326	471	PLQTHPAPQQRGHPIYQHGQTV S*SCRRRGWSSISRPVIHHADAQ LMP

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24719	55087	A	24857	1095	1283	SCRRRGWSSISRPVIHHADAQL MP*PQIVYQHLKPPGIYRQQDR L*IPD*RPVLTIQDVRGP
24720	55088	A	24858	1	1159	
24721	55089	A	24859	1744	3019	KISPRRPQET/CFQKSTNIAREKT LEQEFSVQLFEKIGRRMCLTRE GKKLLPHIYELTRVMDTLREAA KKESDPDGELRVVSGETLLSYR MPQVLQRFRQRAPKVRLSLQSL NCYVIRDALLNDEADVGVFYR VGNDDALNRRELGEQSLVLVA SPQIADVDFTEPGRHNACSFIIN EPQCVFRQIFESTLRQRRITVEN TIELISIESIKRCVAANIGVSYLP RFAVAKELECGELIELPFGEQSQ TITAMCAHHAGKAVSPAMHTFI HALYSCRMRRERLIRATRSCQF NILHEPRRADKRSASGSLRLQE FNYQDKPCMEIRIRTYEKTPIR MDKGLTNFGSRWILPELAHKE KDEETQQRRKSKRDSRREETDT KKKTRDKATKREKDKEIEEMA SISITSRCEDKLENFSSMKYYTEI
24722	55090	A	24860	321	575	SYRRYVFPAQ*NRHLQFAVKPP APVIVHPTLVDSEHHHSLHDKR RQHRPHHSVAHHGSRNSSATA TINALLGRVAQNAATRGTR
24723	55091	A	24861	935	1637	PQPPPPLRREGAGLEKELGGRR VRVKGSGCQPWICGKVPVFIPV ITEQESFQELI/RRTTTACESLGK EYEILMIDDGSSDNSAHMLVEA SQAENSHIVSILLNRNYGQHSAI MAGFSHVTGDLIITLDADLQNP PEEIPRLVAKADEGYDVVGTVR QNRQDSWFRKTASKMINRLIQR TTGKAMGDYGCM/LRAYRRHI VDAMLHCHERSTFIPILANIFAR RAIEIPVHHAEHS
24724	55092	A	24862	1020	1229	

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24725	55093	A	24863	98	1242	MDKFRVQGPTKLQGEVTISGA KNAALPNLFAALLAEEPVEIQN VPKLKDVDTSMKLLSQLGAKV ERNGSVHIDARDVNVFCAPYD LVKTMRASIWALGPLVARFGQ GQVSLPGGCTIGAHIVMDKVSV GATVTIMCAAILTEGATIIEVFY FLPLAIGKFNELYPNIKVRIL\EQ GTNNCM\ESVLCN\ESDFG\INM\ NNVTNSSI\DFTPL\VQRRPFVL\ ACRRDHPLAKKQLVEWQELVG YKMIGVRSSSGNRLLIEQQLAD KPWKLDWFYEVRHLSTSLGLV EAGLGISALPGLAMPHAPYSSII GIPLVEPVIRRTLGIIRRKDAVLS PAAERFFTLLSDFCPGVPSEDNI FESPASQQHEYIGSRQCFLMPSE TTGTMHV
24726	55094	A	24864	1	833	MAELGKRSSVAVSWIGKVKTT AQMVALAWLLWRPPIWVEYA GIALFFVAAVLTLWSMLQYLTL RVQICLISDRFGVIFSKRSKVVK NIVDSSRQEYLEEFYARYNVELI RAPEGFFYLRPRSTTLIPRSVLS ELDMMVGKILCYLYLSPERLA NEGIFTQQELYDELLTLADEAK LLKLVNNRSTGSDVDRQKLQE KVRSSLNRLRRLGMVWFMGH DSSKFRITESVFRFGADVRAGD DPREAQRRLIRDGD/AMPIENHL QLNDETEENQPDSGEEE
24727	55095	A	24865	819	1428	SPRGISRGGCRCQPISGDG\RIFA GILHGLDNELPLQEEVEGNGLE QEGLPFPIRQSDALDLCFSDILV SPNMYIDDGMKRDWPVMKQC ALQRRWRILPDHYGTEPAEKRP GFAPHYCFSYALLVHMMAQQC DLEVGDFVWTGGDTHLYSNH MDQTHLQLSREPRPLPKLIIKRK PESIFDYRFEDFEIEGYDPHPGIK
24728	55096	A	24866	2	1445	
24729	55097	A	24867	1	1785	

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24730	55098	A	24868	3	654	VRFFKGRGSSWHMV\SQWDYV ADRFGTADLLPFTISDMDFATA PCIIEALNQRLMHGVFGYSRWK NDEFLAAIAHWFSTQHYTAIDS QTVVYGPSVIYMVSELIRQWSE TGEGVVIHTPAYDAFYKAIEGN QRTVMPVALEKQADGWFCDM GKLEAVLAKPECKIMLLCSPQN PTGKVWTCDELEIMADLCERH GVRVISDEIHMDMVWGEQPHIS LE
24731	55099	A	24869	955	1278	TLTPDFL*QGHFFRFAGIAYQIV KQTTVGTTVEITLRRYVVDGNR IPPRQDRQGDAFFGFATHTQQW HQVFKRQRDIQIVTANTATTVT QQAGFTIETRTPLRPHQQQ
24732	55100	A	24870	1	1707	
24733	55101	A	24871	1	3615	
24734	55102	A	24872	1	1931	MLLLREHTDTRHDHPRTPTRAT RRRRHTEKKRRKKKRPATHVL MTATLIPVSRLLATDQPQLFHE SASKPAPHLVSSLGCHCGDASC SGRAVADAMQFKTVFPVFVAA AMNPEHMAESGHRITRPEFPDY RELFRESDIKSAVVDSICQCNTP FNYLFRCFELQCLSRHGHSAYG VMQRRHSPMQETRIASLPLQRY RWHEDSVRNRWFSVMVGPSVR VNEWFSAYAMAGMAYSRVST FSGDYLRQPLVSGFHEA
24735	55103	A	24873	1281	2234	ISTNSILRIFSGFRKLMEV/TRLR DTPILTFMNKLDR/DIRDPMELL DEVENELK/IGCAPITWPIGCGK LFK/GVYHLYKDETYLIQEVRIV KGLNNP/DLDAAVGEDLAQQL RDE/LELVKGASNEFDKELF/LA GEITPVFFGTALGNF/GVDHML DG\FMAGDRSHVEEAY/PGDIL G\QGEMMKFTGIPNF/APELFRR IRLKDPLKQK/QLLKGLVQLSEE GAVQV/FRPISNNDLIVGAVGV LQFDVVVARLKSEYNVEAVYE SVNVATARWVECADAKKFEEF KRKNESQLALDGGDNLAYIATS MVNLRLAQERYPGRQFHQTRE

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24736	55104	A	24874	2	760	AKFEEKFLAVPAEALVYTMKG DQKYFPVYANDGKLLPNFIFVA NIESKDPQQI/DRIQALAGWIAE QUGADVNHATRAGLLSKCDLM TNMVFEFTDTQGVMGMHYAR HDGEAEDVAVALNEQYQPRFA GDDLPSNPVACALAIADKMDT LAGIFGIGQHPKGDKDPFALRR AALGVLRIIVEKNLNLDLQTLT EEAVRLYGDKLTNANVVDDVI DFMLGRFRAWYQDEGYTVDTI QAVLARRPTRPADFDDWHA
24737	55105	A	24875	2	391	
24738	55106	A	24876	2	1785	WLLYRAHVKGE/STEALLPNM VATSLAKLPIPKLMRWGATYV HFVRPVHTVTLLLGDKVIPATIL GIQSDRVIRGHRFMGEPEFTIDN ADQYPEILRDSGKVIADYEERK AKIKADAEEAARKIGGNADLSE TLLEEVASLVEWPVVL/TAKF/E EKF/LAISRTALVPYSADNMYQ LVNDVQSYPQFLPGCTGSRILES TPGQMTAAVDVSKAGISKTFTT RNQLTSNQSILMNLVDGPFKKL IGGWKFTPLSQEACRIEFHLDFE FTNKLIELAFGRVFKELAANMV QAFTVRAKEVYSASMRYIYVIV YISYRPPNLLDSHIIGFSSITTHC AVTSHHYNSCDMTMTIHSYVT PYISVRVSLTQTYAPSPSRNLRI TDLTIYRAISSEKSIDDTRHIHTI ESRCRVCGAHDSRDAERLDRF AQTADEIRIADRGFSSRPECIRS LAFGEADYIVRVHWRGLRWLT AEGMRFDMMGFLRGLDCALIS KTRLLSENRRKGRVVQAETLE AAGHVLLLTSLPEDEYSAEQVA DCYRLRWQIELAFKRLKSLLHL DALRAKEPELAKVGIFANLLAA FLIDDIIQPSLDFPPRSAGSEKKN
24739	55107	A	24877	1	2022	
24740	55108	A	24878	2344	2523	
24741	55109	A	24879	82	732	

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24742	55110	A	24880	828	2184	SGCILPPESLRLWASVARRPRTP NQPRQPGPKIGGISPAGSALALA CGKRTVLFASLCTRTGGSQLGE \PALVLLADQMLALDDQYTFLQ RIPRSPYGLAFGPVPHLHYLHQ MRLLDIAPIAFRAMSLAFPVNY LDAVRTGSICSNCNQRSNDSAM GISMNVSTLMRVRAIWVYAAY MERVLDNLLNNALRYCHSTVE TSLLLSGNRATLIVEDDGPGIAP ENREHIFEPFVRLDPSRDRSTGG CGLGLAIVHSIARGNWATSDHR SLTGTQPYARIVVFLVRLIFAFR VTQLTLQISFVRFVVVQNAFPG CPLGIGIDVHFYYAVAYGVFDF LSSRTGTTVFFDDLNTPDFDRC FAFMQAVGKGYTDAYLPIVER RKAMAYGERERNFQLYRRGRY VEFNLPSELAATVYQSDPNFAT GCFRLYTSCNTFNMHKAATML VRAEFSQGYQHQV
24743	55111	A	24881	679	1628	PDADAKRVDITLCLAFGCDAQF IEITFTRLPEVRIHHLQSPASALS SCNHLLIRITQFNADITIGHHLP VNRRVVTVLRDMRHHGDIVHP GVRRGVEHYAAMDPGIVKEIM EVRLLFLAVFVGNHHSRRDSLP VQFVVHTNGDTYTFPGNNIRRD IGFKWRIAALMLHHFLIIDPHFA VMSDRIETQHDTLACPNFRYKD FALIPERCRII/SEYLDRRTDRLK WCYAAFQQGDQSQASNPMYA KAPV*VRWVHGYKALSEKGHL VYQRLYQIFQHAEYQTGTNDA EISTKLCLFSSSLLLLSSSSLQHSI PPNACL
24744	55112	A	24882	1	1515	
24745	55113	A	24883	1954	2859	
24746	55114	A	24884	121	393	SLARWIICNTSEELAANIKRLGD VTVRLNAFHAHGVYGEAQSM GERHAGRR*AVG*CVKGARGE PVDISGAQL/RGCGVNALSGLR FGTDL

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24747	55115	A	24885	1	3706	MDLGANGWQTFRYVVLPNLSS ALLAGGMLAFALSFDEIIVTTFT AEQVDAAVRAADAAFAEWGQ TTPKVRAECLLKLADVIEENGQ VFAELESSNNTAFARASSNGDL PTKADLQAQLDSLNKQKDLSA QDKLVQQDLTDTLATLDKIDRI KEETVQLRQKVAEAPEKMRQA TAALTALSDVDNDEETRKILST LSLRQLETRVAQALDDLQNAQ NDLASYNSQLVSLQTQPERVQ NAMYNASQQLQQIRSRLDG
24748	55116	A	24886	2842	5034	NVRLSPAMRCRWRRGSPMPAM FEVGVKTRIIQRSREVILMADHS KFDAVEPHAVATLSCIKTIISDS GLPETIAQRYQRAGSSLPEAQP DREIEKRGPAIAQAFDAEGKPS KASEGWARGCGITVDQAERLT TDKGEWLLYRAHVKGESTEAL LPNMVATSLAKLPIPKLMRWG ASDVHFV\WPVHTVTLL\LGDK VIPATILGIQSDRVIRGHRFMGE PEFTIDNADQYPEILRERGKVIA DYEERKAKIKADAEEAARKIGG NADLSESLLEEVASLVEWPVVL TAKFEEKFLAVPAEALVYTMK GDQKYFPVYANDGKLLPNFIFV ANIESKDPQQIISGNEKVVRPRL ADAEFFFNTDRKKRLEDNLPRL QTVLFQQQLGTLRDKTDRIQAL AGWIAEQSGTDAGDQTGYSDE RWVPDAHSEAPSPVSDMLSAL LLLTLVLAGMVRMAARLLMA KPPQAVNRGDIGWLTTSPMVIL LVMMLAMGTHIPQPVIRIPGGR FHYSPHQGRTDLPAQRSTWHD FCLQAPHLFRRNTVNVNSSSNR GEAILAALKTQFPGAVLDEERQ TPEQVTITVKINLLPDVVQYLY YQHDGWLPVLFGNDERTLNGH YAVYYALSMEGAEKCWIVVK ALVDADSREFPSVTPRVPAAV WGEREIRDMYGLIPVGLPDQRR LVLPDDWPEDMHPLRKDAMD
24749	55117	A	24887	49	531	
24750	55118	A	24888	1619	1968	
24751	55119	A	24889	1	553	
24752	55120	A	24890	744	970	LAVISEASNQKRGDPVDHAD*I AVANMLLNQFQQSYTPMLHDL IVRYDGDIHQQKSFGVQLPGKL RIVKLIQPVE

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24753	55121	A	24891	52	455	
24754	55122	A	24892	2988	3614	PVSVLTQKRLSPATSHRSTCRVI LNQAYVTPSKCWPDVEEISFNF FHSEDVVRHPVVARIVNAYEA WEEAEQKTMTPANQHAGGLV QCDKMLLQRRSREVIELSEQNA AQMRHVRGADMAMIFQEPMT SLNPVFTVGEQIAESIRLHQNAS REEAMVEAKRMLDQVRIPEAQ TILSRYPHQLSGGMRQRVMIA MALSCRPAVLIADEPTTALDVT IQAQILQLIKVLQKEMSMGVIFI THDMGVVAEIADRVLVMYQG EAVETGTVEQIFHAPQHPYTRA LLAAVPQLGAMKGLDYPRRFP LISLEHPAKQAPPIEQKTVVDGE PVLRVRNLVTRFPLRSGLLNRV TREVHAVEKVSFDLWPGETLSL VGESGSGKSTTGRALLRLVESQ GGEIIFNGQRIDTLSPGKLQALR RDIQFIFQDPYASLDPRQTIGDSI IEPLRVHGLLPGKDAAARVAW LLERVGLLPEHAWRYPHEFSGG QRQRICIARALALNPKVIIADEA VSALDVSIRGQIINLLLDLQRDF GIAYLFISHDMAVVERISHRVA VMYLGQIVEIGPRRAVFENPQH PYTRK\LLAEDPVAEPSRQRPQR VLLSDDLPSNIHLRGEEAVVALI KPGAQIGR\PQSWT
24755	55123	A	24893	134	595	IRTGRNESYKGDISRYKFVSAR ALRNEVRGGRCHKTIRRVSVG KKVIGLKFRHLVPVVTPESIVIP PAPVANDTLVAEVSDAPQAND PTFNNEDLA*FAVLSTPTAILISC PGRWGPAAGSECGVRGAHAHR ELALRAFSCCCFSSNAISIPN
24756	55124	A	24894	708	1444	TDAPGDEEASLQRAAQAGVGK IIVPATEAENFARVLALAENYQ PLYAALGLHPGMLEKHSDVSL EQLQQALERRPAKVVAVGEIGL DLFGDDPQFERQQWLLDEQLIL V\KRYELPVILHSRRTHDKLAM HLKRHDLPRTGVVYGFSGSLQ QAERFVQLGYKIGVGGTITYPR ASKTRDVIAKLPLASLLLETDA PDMPLNGFQGQPNRPEQAARV FAVLCELRREPADEIAQAVLNN TYTLVNVP
24757	55125	A	24895	1460	1777	

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24758	55126	A	24896	381	482	IPGPQSPQSSPDLGWLQC*NP*R LLWKAPRSDK
24759	55127	A	24897	977	1144	
24760	55128	A	24898	2	280	CTFALRDEYPRMLNVDNKGLR DHIELQPLAV/DASYPGGDFRK NAVYVPMW*SAHCEPEGRFAE TGSRRYGEDFASTAPGFRRAAT RKRVRRKR
24761	55129	B	24899	1	1665	
24762	55130	A	24900	296	495	
24763	55131	A	24901	1	5352	
24764	55132	A	24902	187	280	AVDTGLADIIRD\EPNMVARLP LSFTASLSIS
24765	55133	A	24903	1775	1981	HIWQNSLIVLFRGCRSAHAKVH RWKN*LPLNLAPLLPRSGSSAPI RPPPSAQARQPMKSTYGVDRR HS
24766	55134	A	24904	760	1473	
24767	55135	A	24905	1	2124	MNRMSGGYWQLFAESGETCR ARELEQCLEDFYDQRKESVRW HLDLHTAIRGSLHPQFGVLPQR DIPWDEKFLTWLGAAGLEALV FHQEPGGTFTHFSARHFGALAC TLELGKALPFGQNDLRQFAVTA SAIAALLSGESVGIVRTPPLRYR VVSQITRHSPSFEMHMASDTLN FMPFEKGTLLAQDGEERFTVTH DVEVAKNAITEIKTQFEKEKLA QDRIKRNQ/LDANIQRLNYSLDI ANAAGIKKPVYSN\DGIERKLEI EKAVTDVAELNGELRNRQYLV EQLTKAHVNDVNFTPFKYQLSP SLPVKKDGPGKAIIVILSALIGG MLYCRVCIKRNADSPEVFSGFS DPNVVLIAAVFIIGDGLVRTGV ATVMGTWLVKVAGNSEIKML VLLMLTVAGLGAFMSSTGVVA IFIPVVLSVAMRMQTSPSRLMM PLSFAGLISGMMTLVATPPNLV VNSELLREGYHGFSFFSVTPIGL VVLVLGILYMLVMRFMLKGDT QTPQREGWTRRTFRDLIREYRL TGRARRLAIRPGSPMIGQRLDD LKLRERYGANVIGVERWRRFR RVIVNVNGVSEFRARDVSLIAM SAADVDLRQFCSERLLEPDGIA RFSLIPESELIGESVREIGLRTRY GLNVVGLTRTGVALDGSLADE PLLLGDISWLWALESDRYAAM LGRSRSLTYRRGDEHCRASRSP

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24768	55136	A	24906	834	993	EEIEVARLRDQKSAEGGIQNRE YWPGRSGHR*SPHAPIIGTQFLQ ALFQTWDQFVFALSACGRRHP TDGRRQNPAVSGHSVAARQPA HSQTDEASG
24769	55137	A	24907	3519	5161	
24770	55138	A	24908	374	1891	KWKLKRPDSNIDHRRVPNLET WFSRHDKTRPTSKNPSDYQAG DIVSWRLDNGLAHIGVVSDGFA RDGTPLVIHNIGAGAQEEDVLF NWRMRQCQHNQHNTATFNGP RILAEQPPGKEYAANGNGQLYP MSSLNIKQGSDAHFPDYPLASP SNNEIDLLNLISVLWRAKKTVM AVVFAFACAGLLISFILPQKWTS AAVVTPPEPVQWQELEKSFTKL RVLDLDIKIDRTEAFNLFIKKFQ SVSLLEEYLRSSPYVMDQLKEA KIDELDLHRAIVALSEKMKAVD DNASKKKDEPSLYTSWTLSFTA PTSEEAQTVLSGYIDYISTLVVK ESLENVRNKLEIKTQFEKEKLA QDRIKTKNQLDANIQRLNYSLD IANAAGIKKPVYSNGQAVKDD PDFSISLGADGIERKLEIEKAVT DVAELNGELRNRQYLV\EPITK AHVNDVNFTPFKYQLSPSLPVK KDGPGKAIIVILSALIGGMVAC GGVLLRYAMASRKQDAMMAD
24771	55139	A	24909	1111	1895	PLVNFSNSSHPVSNPSIQLSSITL PLVENESRARA\VKDQMDAIDH QTGVRPLVFYSIVLPEIRAIILQS EGFCQDIVQALVAPLQQEMKL DPTPIAHRTHGLNPNNLNKYDA RIAAIDYTLAHDDGISLRNLDQ AQVILLGVSRCGKTPTSLYLAM QFGIRAANYPFIADDMDNLVLP ASLKPLQHKLFGLTIDPERLAAI REERRENSRYASLRQCRMEVA EVEALYRKNQIPWINSTNYSVE EIATKILDIMGLSRRMY
24772	55140	A	24910	77	434	EKKRGREDKPGTMATFPPATSA PQQPPGPEDEDSSLDESDLYSL AHSYLGPLIMPMPTSPLTPALV TGGGGRKGRTKREAAANTNRP SPGGHR/ERKLVTKLQNSERKK RGARRLRQSWR
24773	55141	A	24911	31	295	

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24774	55142	A	24912	75	426	EKKRGREDKPGTMATFPPATSA PQ\QPPGPGGRDSQPWMDLDLL /YSLAHSYLG\GGGRKGHTKRE TAANTQPPQPLAGHERKTVDP KLQ\NSERKKRGARALRQELEM RRRPWTLTPSQ
24775	55143	A	24913	1	1107	
24776	55144	A	24914	1	1468	
24777	55145	A	24915	1	2463	
24778	55146	A	24916	1	603	
24779	55147	A	24917	118	1087	IRSKKMTTQTVSGRRYFTKAW LMEQKSLIALLVLIAIVSTLSPN FFTINNLFNILQQTSVNAIMAVG MTLVILTSGIDLS/VAASIVGIEV NALVAVAAALALGAAIGAVTG VIVAKGRVQAFIATLVMMLLL RGVTMVYTNGSPVNTGFTENA DLFGWFGIGRPLGVPTPVWIMG IVFLAAWYMLHHTRLGRYIYA LGGNEAATRFSGINVNKIKIIVY SLCGQLASLAGIIKVARLSSAQ HTAGTGYELDAIAAVVLADDR QSGGDFAGGAGRQQKAVITTT GHLEYEHEKTGYPGFRCCAKR HRQCECDGKRHHRAGGLHA
24780	55148	A	24918	1	1286	MHEREPGLRAALAGQLEFRVG LGLGVWTLRLMELLRQRLELV VYTASDGQEYEMVSRLNWVN YLVLEDVHIILPDQMRGITGCY ATHPHERRLHAGTVHRQNIVN NPPDCVPRDAGEAEVAPDPSLA SLQLQTPELPGLISCHNSIQVSN EARLFELLICQWRDFRKRVIAA KSMQGRELEGGQRGQDKATNP FRVLALKGSGDPDPHGAGRQG SDLLLHPVSDAQVLQHFFQRRA LLSSPWDYHDVVGLCAQEPCG YIMELFIIKHQCSLAQTAGSLAP EQKKELEMTVRYYISSADLTAE KFATAIRN/HWHVENKLHWRL DV*RQFDKHCSTADSTRILASF VRHVNAALDVRVVFASGSETT HGDGARRYLRCVDVDWRRRT AVAQADKSARACHFHYAGYH HHEHFADPVSVGAKYHTVFST

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24781	55149	A	24919	417	861	AKGPCPDRNHSSDDKDVIAIDG KTLRHSYDKSRR\RGAIHVISAF STMHSLVIGQIKTDEKSNEITAI PELLNMLDIKGKIITTDAMGCQ KDIAEKIQKQGVIFSLCPASIIDD KKVTDLAVAVQGTLKTGSGGI LPPGGALKKISEKL
24782	55150	A	24920	3	1767	HISIIPDYR*AWKVEHKLSGILL LTIFAVISGAESWKDIEDFGKTH LDFWKQYGDFENGIPVHDTIAR VVSCISPAKFHE\CFINWMRDCH SSNDKDVIAIDGKTLRHSYDKS RRRGAIHVISAFSTMHSLVIGQI KTDKKSNEITAIPELLNMLDIKG KIITTDAMGCQKDIAEKIQKQG GDYLFAVKQRNGAVENRAKTQ TRIAFGDHFFRRQVSQRIRLFCH RLATQFAARLRMFIATGQPMN GLRLLLFIVNKQAALLVNKLDA QMAAFQQLPGRGRQATVRRE MDLCAFAERMGLPVSRPGDIQE FHAGCRTKFDAGAFRDKHHVA CFGDHGLAFVANMQLPFQHHV DFVVVQGPREECVLPLHKTGG HAAAVVSGHKISQAHAMRLCA VETTKLDATGINHFDAAFAGHR FESSVDCACSATVSFITFPSVCD RFGNWLRSGRCSHAARKNEITL TNTRRSLRPKRNTERHDMQTR ATVIAAGEKLLPYAETLMSTW QAARKEVAHTSRHNEFSIGASA SLWDMVMTSAGAVVTTVVVA VRPSSFYILCSHKKKRTLHTKR EKTVDRRKEYETRAKRSETDT

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24783	55151	A	24921	110	1282	SNTPYIIKENKMELKKLMGHISI IPDYRQAWKMEHKLSDILLLTI CAVISGAEGWEDIQDFGETHLD FLKQYGDFENGIPVHDTIARVV SCISPAKFHECFINWMRDCHSS DDKDVIAIDGKTLRHSYDKST/ RRRGAIH\VNNAFSTMHSLVIG QIKTDKKSNEITAIPELLNMLDI KGKIITTDAMGCQKDIAEKIQK QGGDYLFAVKGNQGRLNKAFE EKFPLKELNNPEHDSYAMSEKS HGREEIRLHIVCDVPDELIDFTF EWKGLKKLCVAVSFRSIIAEQK KEPEMTVRYYISSA\DLTAEKFA TAIRNHWHVENKLHWRLDVV MNEDDCKIRRGNAAELFSGIRH IAINILTNDKVFKAGLRRKMRK AAMDRNYLASVLAGSGLS
24784	55152	B	24922	258	507	
24785	55153	A	24923	1	3060	MTEIEENMLLPISGQELPIRWLA QHGSEKPVTHVSRDGLQALHIA RAEELPAVTALAVSHKTSLLDP LEIRELHKLVRDTDKVFPNPGN SNLGLITAFFEAYLNADYTDRG LLTKEWMKGNRVSHITRTASG ANACGGNLTDRGDSFVHDLTS MARYVATGVLARSMGLVIYSFI QHTLTLEEYREITAFLFREFTHA AAARYTGEQETLPLSPQWILRQ CKEVASLCDGDTFSGEQLNLM LQQREWREGFLAER
24786	55154	B	24924	56	967	
24787	55155	B	24925	1	1776	
24788	55156	A	24926	1	864	
24789	55157	A	24927	424	513	
24790	55158	A	24928	1	5049	
24791	55159	B	24929	1	939	
24792	55160	A	24930	1	1837	

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24793	55161	A	24931	1	2249	MLPDIARFLPRLANDQIEEFTW YVNHFTYSNAIKIFCYQMFLAS TQARASGAPLQRLFRAIGGNA WERPFRMVFCSAAFSEESSPFR ETNYEPQLFLGFATDYRFAGW TLRDVEMGYNHDSNGRSDPTS RSWNRLYTRLMAENGNWLVE VKPWYVVGNTDDNPDITKYM GYYQLKIGYHLGDAVLSAKGQ YNWNTGYGGAELGLSYPITKH VRLYTQVYSGYGESLIDYNFNQ TRVGVGAIGVNVAQAEVLNLE SGAKQVLQETFGYQQFRPGQE EIIDTVLSGRDCLVVMPTGGGK SLCYQIPALLLNGLTVVVSPLNS LKEKSANPFEFTFAAFAHAFHW VIQAIGMINTPADGSTHKQART SWLPYSSLPVLSVSTQDEKAKK KMRFMQRSKDSLAKWLSAILP VVIVGLVGLFAVTVIRDYGRAS EADRQALLEKGNVLIRALESGS RVGMGMRMHHVQQQALLEEM AGQPGVLWFAVTDAQGIIILHS DPDKVGRALYSPDEMQKLKPE ENSRWRLLGKTETTPALEVYRL FQPMSAPWRHGMHNMPRCNG KAVPQVDAQQAIFIAVDASDLV ATQSGEKRNTLIILYALATVLL ASVLSFFWYRRYLRSRQLLQDE MKRKEKLVALGHLAA/GVAHE IRNPLSSIKGLAKYFAERAPAGG EAHQLAQHVQIRRFHAHHPAS

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24794	55162	A	24932	261	2115	TLVFCWHAKLLSHGVFMDIISV ALKRHSTKAFDASKKLTPEQAE QIKTLLQYSPSSTNSQPWHFIVA STEEGKARVAKSAAGNYVFNE RKMLDASHVVVFCAKTAMDD VWLKLVVDQEDADGRFATPEA KAANDKGRKFFADMHRKDLH DDAEWMAKQVYLNVGNFLLG VAALGLDAVPIEGFDAAILDAE FGLKEKGYTSLVVVPVEDLAGI EIDHTTSMVMIFGIIFLTAVVVH IILHWVVLRTFEKRAIASSRLWL QIITQNKLFHRLAFTLQGIIVNIQ AVFWLQKGTEAADILTTCAQL WIMMYALLSVFSLLDVILILGQ\ KFPA\AFQLPLKG\IFQGIKLMGP ILVGILMISLLIGQSPAILISGLGA MAAVLMLVFKDPILGL\VAGIQ LSANDMLKLGDWLEMPKYGA DGAVIDIGLPTVKVRNWDNTIT TIPTWSLVSDSFKNWSGMSASG GRRIKRSISIDVTSIRFLDEDEM QRLNKAHLLKPYLTSRHQEINE WNRQQGSRESV\NLRRMP\NIG \TFCAYLNK\YLGTH\PRIRKDM TLMVRQLAPGDNGLPFEIYAFT NTVVWLEYESIQADIFDHIFAIV EEFGLRLHQSPTGNDIRSLAGA FKQ
24795	55163	A	24933	1	757	
24796	55164	A	24934	8	343	
24797	55165	A	24935	1423	1761	
24798	55166	A	24936	1	851	MKGDTKVINYLNKLLGNELVA INQYFLHARMFKNWGLKRLND VEYHESIDEMKHADRYIERILFL EGLPNLQDLGKLNIGEDVEEML RSDLALELDGAKNLREAIGYAD SVHDYVSRDMMIEILRDEEGHI DWLETELDLIQKMGLQNYLQA QIREEGKSIYQEQTTAMKRPDY RTLQALDAVIRERGF/EARGTK AVHYTISRLTAH*ATGKYVRAA AVGAYRTAAPDGTRAKTAGTA APGGVAGRRVAGR*TNRFDSA AAFTGGQRRQSGDVVASCTGS CVG

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24799	55167	A	24937	1645	2009	PVFIQFVEGMCGTANEPACLLV NQSPAIYFPGKIAAIWQNPRHV ESGSM*TL/IDSD*VSPTECLSPR HHYMPFEEAARGYEIFEKREEE CRKVILVPGAQSAEAAQKAVS GLVNAMPGGTI
24800	55168	A	24938	1	3936	
24801	55169	A	24939	1	2240	MRSPMTRNSRNGKHDYKPPPR KRRQPPHDHTAPNSTPARNQRG RPHRPNRQAGQREQRANNPTP NTPSPPPTNDPAEPHQTRHDSR QPHNTPPAYAELVAAALLTTDT NVTRRRLRYMQPDTKLCHSAG KSIYQEQTTAMKRPDYRTLQAL DAVIRERGFERAAQKLCITQSA VSQRIKQLENMFGQPLLVEDET RTQERLRRGEVVGAVSIQHQAL PSCLVDKLGALDYLFVSSKPFA EKYFPNGVTRSALLKAPVVAFD HLDDMHQAFLQQNFDLPPGSV PCHIVNSSEAFVQLARQGTTCC MIPHLQIEKELASGELIDLTPGL FQRRMLYWHRFAPESRMMRK VTDALLDYGHKADDIILRITAT AICGSDLHLYRGKIPQVKHGDI FGHEFMGEVVETGKDVKNLQK GDRVVIPFVIACGDCFFCRLQQ YAACENTNAGKGAALNKKQIP APAALFGYSHLYGGVPGGQAE YVRVPKGNVGPFKVPPLLSDD KALFLSDILPTAWQAAKNAQIQ QGSSVAVYGAGPVGLLTIACAR LLGAEQIFVVDHHPYRLHFAAD RYGAIPINFDEDSDPAQSIIEQTA GHRGVDAVID\AVGFEAKGSTT ETVLTNLKLEGSSGKALRQCIA AVKRCGIVSVPGVYAGFIHGFL FGDAFDKGLSFKMGQTHVHA WLGELLPLIEKGLLKPEEIVTHY
24802	55170	A	24940	687	792	TPTLTRPLRIIPVAYRATLK*NR PAKVSQLCCTNA
24803	55171	A	24941	3	510	AGDMVWLCVRTQISY*IPRTHP AVGIPRERPLRGADTPQRGASH RIRGEGKRK*KRWALLCCPGCN I*RHFCHHN*ERYFW\IYWVEST GAVKHLQNTGHWLNAGALPV RRPRKSVTGSIARQ\VSVPISAR ALLACPCGQCAGYATQFVMKS ITQRFNVACRTRMYAVG
24804	55172	A	24942	189	563	

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24805	55173	A	24943	1224	1772	GSPSVSLATSSCSIKVQNPGISR VVAGSSAIISNVSPGCILRTVLR TIITGSGQRRPSASSVWSGHTSC VFRTANFSSGMVNLSVSVTNLS PSIVPRIKFIAGDPINPETNIFAG WL/VNGFRRTYLLNNPVFHNH NPRRHGHRFGLIVGHVDHGGV QFLMQLADLCAHLHAQLGIKV
24806	55174	A	24944	1541	3675	LEIIKRKISMRRNWMHSHTRY WRFLDFPTLRGGRWMR*SGEK LNPISTPLRANCLALAQRATRL APMSFTWGMPTSQPDCAVPGR RALPPELLCLQRSSQSRFAGTAI T
24807	55175	B	24945	1	1497	
24808	55176	A	24946	650	739	
24809	55177	A	24947	4447	4804	RQNDRYSGRERHEITPLCW*IPR IAWALWLRSLRRGPQEKSLHN RVARTISWPYQARHPCRTLLGG HGFFLHIIVLSQLPCLSYPLSSFA GLLARSSMFLKLAARFLCCRRS YAASPLSI
24810	55178	A	24948	1	3774	
24811	55179	A	24949	431	949	NYAIYHQNHGVNISPGLGKTHN YRQQHCGITYYWRDLMPANK NYKQRWITPGSASFYRSSHKAL IRLLATRLPAFPWGRRSAWRWP VRY*IRVPSSGSYHLEISMRWVI FPQPKALTPSNLHWKTA*LWS* KTLSFVCWIATVLPARFWKLTD PWLAILPCANIYWQASAPD
24812	55180	A	24950	337	648	

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24813	55181	A	24951	1	1430	MFTYPHSKFRVNRFVGQVLLIE FSILLDGGRTGLGHSLSVWCISG DCSSFLQGKPTSLPLRKPSAIICS DSLSGSADLLRNHNFVCTAADT FTTDITPEAGDARLIGIAQTVRH LEDPMRAWKSIHKSCEILDPIHR APVKENTHPARKINISDPAAGA VARIRYEGVLSVCRASASAYVS RSRTITVACWYVSNTGVTGATI GVKRQHRHARLFSGDGAPGFG TGKRDIRQLRRLVRIQIQRTFFA AVLHVPTPWSRAIDAAALLTVI DVKVLTACACQACRTLALRVA QVIDRCSNPGDIMSSVARRYWF ISRWSAKRDCAVSYDQDPGQA QRSCRSCLVAVDRGLWLSAYC RSLMTQTLLPDDVPRILPNASSP SRLRCL\HIWVITACW\CANSSG FIARNL/GLCGWEKRLVKDLTRI QDTGRAKEILGATATLEFR\R*T PTLTRPLRHPVAYRATLK*NRP AKVSQLCCTNA
24814	55182	B	24952	1	1295	
24815	55183	A	24953	3151	3207	LQWLID*WCL**TFDLRFA
24816	55184	A	24954	2740	3917	NGRSVWAVKLELFRVKPLDIPQ QRVGQQHVLLKAFNRRLAMQF IQLIATDVTEILPLHVVEDGTDS LYCLALSHLRCGRLSLRWRREL PRGLGVNVSWCYPFKAQGQCA AEITDKAGQREIFGFARVKENA GYVIYECYQPDDGDKLIRELPF SSLIFARQWFVVGELLQHLPPE DRITPIVGMLQGVVEKGGELRV EVADTNESKELLKFCRKFTVPL RAALRDAGVLANYETPKRPVV HVFFIAPGCCYTGYSYSNNNSP FYMGIPRLKFPADAPSRSTLKLE EAFHVFIPADEWDERLANGMW AVDLGACPGGWTFQLVKRNM WVYSVDHGSMVQ/SLWITTGT CWGTRFHSARGQKFPEVLQGS QTLPAATDPPGMQWLASGVLE
24817	55185	A	24955	1	519	
24818	55186	A	24956	510	731	

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24819	55187	A	24957	1	1055	MRLCPEKTTKAKRVKAVLAWS KEEPWLSEWSEEVLEMGYKKL GDFSTAGAILETEIRPSPASAFTL DSQPPESNNLSEAKYAPNNIESI AKYFAPKSPMFSESPSGTALDS FNRNERRRWPLWPNKSGFGSD LTLSKIGISSPDIALERLYEQAR KLSGKFRALSELDESARSGVLK VLCAFAYQDYSRSAASTRKCD CCDGGGFTEAQVFTNKVSYPW GKPPYWSKMSRAVRPSDWESW TQAREVVRVKCKPCNGKGVIS NSCRCHGKGKVLAKHESDRRG VPVMKACDRCGGRGYARLKFS SV\MRALILLRRLKKTAAYEQL QPLFEELVAECHKQESMADSIL SKVTR
24820	55188	A	24958	361	725	
24821	55189	A	24959	1100	1738	WQRSTLPLLFESAMQTGVNAG NPVAW*KSAGYGHIKLYDAKN RL\LVQSTALWASQLVQYLSTF FRKNLKRPSEFVTLADEIEHVN AYLQIEKARFQSRLQVNIAIPQE LSQQQLPAFTLQPIVENAIKHGT SQLLDTGRVAISARREGQHLML EIEDNAGLYQPVTNASGLGMN LVDKRLRERFGDDYGISVACEP DSYTRITLRLPWRDEA
24822	55190	A	24960	1	2043	
24823	55191	A	24961	2164	2487	KLKRIARHNFHGIRDLHLFQQV NRFSSGFPTTYWLMMADHVHH LKTYSTCRIEGGHRFLKDHRHS CAAPLTKLFFPRVKNIFSQQGN LPPMYAITARR*QTHNQHCGD

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24824	55192	A	24962	128	2574	QVVVVMAMVAKVVIDIVVVV GVEMIRVKVVAIVVEVVVVEV VVVMVAWWW****WW*/DMG EARWWWEYGVWEVEPEIILNA PQQYLLAGIGDTLAKWYEAVV LAPQPETLPLTVRLGINNAQAIR DVLLNSSEQALSDQQNQQLTQS FCDVVDAIIAGGGMVGGLGDR FTRVAAAHAVHNGLTVLPQTE KFLHGTKVAYGILVQSALLGQ DDVLAQLTGAYQRFHLPTTLA ELEVDINNQAEIDKVIAHTLRPV ESIHYLPVTLTPDTLRAAFKKYS QSCFVIRLGGDFIHQLAENIIVI FVNNHNGTRCQTFQWAISNCH TVSLQKFSVRKFLSDLFAIGGR RGVRPPTEAPGHQKSDNQAHV SVSFDGLDLVFFVVNQWAGVV FCFDLFSRKRGRFSVWRNKGFG RYCQRLANFRDRQAFQLLNQIH FTRCKQVDNGGTEFKATHFLAF QQCHRTVVFPGRPAIKTRVERL DRYRNRMEKSNGQANLRVHG GTWEKLVLQLDSAGMVNRVSS VGAPLREPIPTEGKGAKEDTWG NLSSNDPLLEAFGGQFGIAISMH QTLATRGGKRNARPTTRPRFHR GTNPRGIAPHIGTANARYSTGH CPVALPFGLRGPPLARENVATA TKGHESASRETEVVAVAKLTSR VLLICDATHALPIQVLRNDIRVI AAGNGCTDDLQLEHLPANTDIR
24825	55193	A	24963	117	335	PGLAPATRRSTPGRFNADAGAD *RRAAGTGAGRAKRRGVGIHR CLADPFLADCRNAGLRGAALC GTAAASGK

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24826	55194	A	24964	208	1903	YLAIKTFRCLHDFFTDEQLSRA VWIYGKRAIAAAQTKLPPAFGL PGAKHILFRGHCSESDVQQLAA ESGDDRSVVIGVGGGALLDTA KALARRLGLPFVAVPTIAATCA AWTPLSVWYNDAGQALHYEIF DDANFMVLVDPEIILNAPQQYL LAGIGDTLAKWYEAVVLAPQP ETLPLTVRLGINNAQAIRDVLL NSSEQALSDQQNQQLTQSFCDV GDAIIAGGGMVWGLGDRFTRV EAAHAGPNGLTGLPQTEKFLH GTKVAYGILV\QSALLGQDDVL AQLTGAYQRFHLPTTLAELEVD INNQAEIDKVIAHTLRPVESIHY LPVTLTPDTLRAAFKKLIQGLIS AEQLAQALAEQNGVAWESIDA WQIPSSLIAEMPASVALHYAVL PLRLENDELIVGSEDGIDPVSLA ALTRKVGRKVRYVIVLRGQIVT GLRHWYARRRGHDPRAMLYN AVQHQWLTEQQAGEIWRQYVP HQFLFAEILTTLGHINRSAINVL LLRHERSSLPLGKFLVTEGVISQ ETLDRVLTIQRELQVSMQSLLL KAGLNTEQVAQLESENEGE
24827	55195	B	24965	31	205	
24828	55196	B	24966	69	402	
24829	55197	B	24967	1	721	
24830	55198	A	24968	1	1703	
24831	55199	A	24969	2853	2889	LIIGLDLPAVSAIFQRALRFTHV GIADGGAYVVQR/HRPDEPRRR CCSE
24832	55200	A	24970	297	473	
24833	55201	A	24971	1179	2148	CQVLRPRTKRLNVLFLHRMQH QWRQRELVHNMCFVIACAKRK RAPFVQAAEEV\RPGQHDDEFP LAIWQTGSGTQSNMNMEVLA NRASELLGGVRGMERKVHPND DVNKSQSSNDVFPTAMHVAAL LALRKQLIPQLKTLTQTLNEKS RAFADIVKIGRTHLQDATPLTL GQEISGWPASRSGTGSWRYSGG YWTKYPSGVCASRSKMNWYST RASDGGHASDAVRTAQAADRE LRAPVRDELNASITSKTRLAEST SLAEWVKASPHDDDKPILLPGE WEVNTRRERQKQGIPLDAGSW QAICDAARQIGMPEETLQAFCQ Q

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24834	55202	A	24972	166	365	NPFSNSPWETYPVAFTIPLALFM GIYLRYLRPGRIGEVSVIGLV/SP DFRHYLWRLGGRKSDLGTVL
24835	55203	A	24973	83	362	KPPCFLQASVTCWLRLPFASMII LPPCACS*ST*ESIRPAVVGPREP EGITFRRFGRTRVVNRMIFDVL RHLFTVIHPLFQFGVTYITTDDN
24836	55204	A	24974	584	853	
24837	55205	A	24975	1	3017	MSQDPFQEREAEKYANPIPSRE FILEHLTKREKPASRDELAVEL HIEGEEQLEGYAPVLAPESGILI MRPTLTMPALTKFVDGTGPVW TGNLFPFLFITIACGAVSGFHALI SSGTTPKMLANEGQACFIGYGG MLMESFVAIMALVSACIIDPGV YFAMNSPMAVLAPAGTADVV ASAAQVVSSWGFSITPDTLNQI ASEVGEQSIISRAGGAPTLAVG MAYILHGALGGMMDVAFWYH FAILFEALFILTAVD
24838	55206	A	24976	3	206	EPDFLPL**RRNHEQNYRDGKC TGSYRSLRTGR*SGQYDHHLRS DPGKSENGRSTGRRRCTGTSVA G
24839	55207	A	24977	3	982	GDAEPFVFLPR\RKDHEYSLDH YQHRFYLRSNRHGKNFGLYRT RMRDEQQWEELIPPRENIMLEG FTLFTDWLVVEERQRGLTSLRQ INRKTREVIGIAFDDPAYVTWIA YNPEPETARLRYGYSSMTTPDT LFELDMDTGERRVLKQTEVPGF YAANYRSEHLWIVARDGVEVP VSLVYHRKHFRKGHNPLLVYG YGSYGASIDADFSFSRLSLLDR GFVYAIVHVRGGGCKINLVVD NGKIVRAEAAQGKTNQGTLCL KGYYGWDFINDTQILTPRLKTP MIRRQRGGKLEPVSWDEALNY VAERLSAIKEKYGPDAIQTTGSS

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24840	55208	A	24978	1339	3640	SPLSTAGISICGPLLIITDVDLGT TVAGIKGMIATGEGTTEWNSV MVAMLLTLIPPVVIVLVMQRAF VRGLVDMRNKMAGLKLQAVT KSWDGKTQVIKPLTLDVADGE FIVMVGPSGCGKSTLLRMVAG LERVTEGDIWINEQRVSELRLIG YMSRKMGGGKNRREPHIDVKR GIFGLSITPEFSEPLAEDFLSSRQ YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYYVRKHPVT LLPYQVWRHAIGTPASQDKLIY EEKDDTYYVSLHKTTSKHYVVI HLASATTSEVRLLDAEMADAE PFVFLPRRKDHEYSLDHYQHRF YLRSNRHGKNFGLYRTRMRDE QQWEELIPPRENIMLEGFTLFTD WLVVEERQRGLTSLRQINRKTR EVIGIAFDDPAYVTWIAYNPEPE TARLRYGYSSMTTPDTLFDLDI DTGERRVFKPPE/V/PGFYAA/SY RREPRW/IVSADGVKYSFV\APR QHFRRDAPVLSFLLFSDRAPFR NNGPRVVLLLGYYHPELLGVT YSQLSVHEARPKPLPIPHSRHRH VPTRNEMAQEKERPAGSQSLFR GLMLIEILSNYPNGCPLAHLSEL AGLNKSTVHRLLQGLQSCGYV TTAPAAGSYRLTTKFIAVGQKA LSSLNIIHIAAPHLEALNIATGET INFSSREDDHAILIYKLEPTTGM LRTRAYIGQHMPLYCSAMGKI
24841	55209	A	24979	1	248	
24842	55210	A	24980	839	1625	PDAFILTTKPAGAIPTSTSITRPIP FCPSFAPCENATPAAET/HQRNT RPEWRFTFAFFLFAIFRNAVNT VTMSIRKGIGVHHNAANLVPW MTKFFQRFGIAFQSRGAVFHQH HHAGYAGQRGKTALAEQRLVF GFGINKQMRAVPLIGEVYQFSG *CQRQSFTADGFTDSNAFNNIS GNSTARDKLFIAGYGNRYFHC GVNAQIIFMQELGDFRHFVIF/A QKGNEYHGDTRISPGRFRRGHH PLGALRLAASVERSGNGHRA
24843	55211	A	24981	2538	2864	GSSLINSKVMP/SF*QQNRKFAY KRAGVATDEFHAESFVRGRAP MKRKL*LFMQLGGDVIQPFDGF IAGNTVYRCQQLAVGDAVGKI LHNRYAFRQQSTVIQQQCRHLP
24844	55212	A	24982	1	1281	

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24845	55213	A	24983	1	2180	METLNLYADLRSVTGEALLLL DEPGVGVDPISRRELWQMVHE LAGEGMLILWSTSYLDEAEQCR DVLLMNEGELLYQGEPKALTQ TMAGRSFLMTSPHEGNRKLLQ RALKLPQVSDGMIQGKSNIVGI KDTIDSVGHLRTMINTVKSVRP SFSVFCGYDDHLLNTMLLGGD GAITASANFAPELSVGIYRAWR EGDLATAATLNKKLLQLPAIYA LETPFVSLIKYSMQCVGLPVET YCLPPILEASEEAKDKNRPLVD LEHAALQVGKGIIPPPLREYGAS EVRSVTRAFNHMAAGVKQLAD DRTLLMAGVSHDLRTPLTRIRL ATEMMSEQDGYLAESINKDIEE CNAIIEQFIDYLRTGQEMPMEM ADLNAVLGEVIAAESGYEREIE TALYPGSIEVKMHPLSIKRAVA NMVVNAARYGNGWIKVSSGTE PNRAWFQVEDDGPGIAPEQRK HLFQPFVRGDSARTISGTGLGL AIVQRIGDNHNGMLELGTSERG \GLSIRAWLPVPGTRAQGTTKE GAREDAVEFFAKLGFVNQGEIT TPTTTPIRHFLMIKPVATLDDIL HRGDWCAQLQQAWYEHIPLSE KMGVRIQQYTGQKFITTMPETG NQNPHHTLFAGSLPSLATLTGW GLIWLMLRERHLGGTIILADAHI RYSKPISGKPHAVADLGALSGD LDRLARGRKARVQMQVEIFGD
24846	55214	A	24984	875	1150	
24847	55215	A	24985	1507	1974	
24848	55216	A	24986	1	1006	
24849	55217	A	24987	1491	1703	RECRYATNGKNNGCCRSAGSD FSSRLRYVR*PFIYTQ*SCGIGH CPGTDIRAKIRRTARFIKNYGTY CPS
24850	55218	A	24988	1	1758	
24851	55219	A	24989	1773	2165	PSRGVEVNSGWNWQATNRRVI RNFDDLDQLIIPGTARNAQTCIF NFVTVTMTLNNCRRIVQLANQ/ DYRQPTGTAVAETHGTAEIALL ATNFNVAVFIAPLGNQRHNRVL TVWHKFRRVGVLHVGNMASVI N
24852	55220	A	24990	1	141	SPGKIRPVIAAAMKQIKEFMSP DSDFFRYMKTPTSATR*YNDCG TGQ

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24853	55221	A	24991	1430	1933	PHVCMGSLTMPDSACMAPFPPS AVRRWNSSFPPTFSAHTSSPCA CYPRCVRTVKGVL**HHR*W/V LISTPGRGAYAASKYALEAWSD ALRMELRHSGIKVSLIEPGPIRT RFTDNVNQTQSDKPVENPGIAA RFTLGPEAVVDKVRHAFISEKP KMRYPVTHGDLWR
24854	55222	A	24992	1318	4265	LAIVALFLDLQNHIFSKGFWPS DKFYAAKVEEQNQRHQRYHGT SYNLEPDIKSSPGGLRDIHTLQ WVARRHFGATSLDEMVGFGFL TSAERAELNECLHILWRIRFAL HLVVSRYDNRLLCVHPTLLTTL DIHGEAQIWRREVSSRYGQYPK AQAAQPDQLMSDYFFRVSLAM QNKTLLFSLDDTLVNNALQTLN KTRPAMVDVIPTDGIVPLYINPQ GIAKLLRNETLTSLPKNLEPVFY NAAQTLLMPKLDAL
24855	55223	A	24993	1	454	MGFDDTRDRALFEDSAMSQQP TVPDRLRWLLQTFKYQKNIRI* STPRKKPMRHSIWNIWGSRRC WSNPKRTFMSISVRGNMAAIM SFHTSAVMRSHCSILTTIKSRW ATLNTLILR
24856	55224	A	24994	65	330	
24857	55225	B	24995	1	1998	
24858	55226	A	24996	1175	1877	QQVPQKGPGRAKRHLHAAGW HWHQRDRCPEEKNVRQ*RRYR AVRFIII
24859	55227	B	24997	1	3117	
24860	55228	A	24998	1888	2412	ARFKHVGDGTVTHRLFRRAAQ IVRVV*RAVSHRQHFTGVDIHQ HGATRFSLVKGHRIVQFAINQR LQAFINTQRQVVRSLAVSRRNI FNYATIAVFTHNALTRLPGKPFI ETLLNALNPLTEHAARDLEDSP VRITAYIEDVDALAQAGADIIAI DGTDRPRPVPVETLLARIHH
24861	55229	A	24999	1	2457	

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24862	55230	A	25000	1	3019	MAALRQSFWSQLFDRVHIGLD FFDASINRIAAWVIGTRNMKKA LLRALLEPTAELRNWKRRAITL RVWHCWKSRNRCRGRRSGKCI ANVTIRQQDHQIETVFINQRLH ERMFPPFVLFAERLSGDEDLGL KAPILEALNDLGYEKPSPIQAEC IPHLLNGRDVLGMAQTGSGKT AAFSLPLLQNLDPELKAPQILVL APTRELAVQVAEAMTDFSKHM RGVNVVALYGGQRYDVQLRA LRQGPQIVVGTPGRLLD
24863	55231	A	25001	60	545	PSPFTAGASMAVERSTG\HEGE LVLETLVIDGDENT/CAGTRRSL RANA*CLFHPFRAGAEKLAEEV WFCRYPHCGCEQNTTTEEQRR TEWMVTESLADFLDPHDPGKT VEGYPAPKRARNRNRAEDHRQ RLRHRTRKKQTHGQRRRHRPE PAQRQPQTGTTD
24864	55232	A	25002	1410	1575	
24865	55233	A	25003	200	691	
24866	55234	A	25004	1336	2028	
24867	55235	A	25005	1	345	
24868	55236	A	25006	671	1204	RTSDKLPFCRRSRMENLARFLS TTLKQLRQQRGWSLSRLAEAT GVSKAMLGQIERNESSPTVATL WKIATGLNVPFSTFISPPQSAT/P SLFPYDPQLCFEHLAIQMASGAI SESTPHEKGVIEHVVVIDGQLD LCVDGEWHTLNCGEGVRFAAD VTHIYRNGGEQTVHFHSLIHYP RS
24869	55237	A	25007	2251	2466	
24870	55238	A	25008	181	626	WQNFDTCGGDMLDKLDAALR FQQEALNLRAQRQEVLAANIA NADTPGYQARDIDFASELKKV MQRGRDATSVVALTMTSTQHI PAQALTPSTAELQYRI\PANPSL DGNTVDMDRERTQFADNSLQY QMSLSALSGQIKGMMNVLQSG N
24871	55239	A	25009	57	278	
24872	55240	A	25010	171	532	KPVQFAIADGNNQPLALLNIHL PVMMLAIAHGPLLPAFPPELLV LFDDS/PLSSRVLLINAFSGGSDT AMRRAGKGAPAFLLPELPIITV VSPFLPQSSPRRKPIMSKRIPSAV NQRNPRQ
24873	55241	A	25011	1	648	

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24874	55242	A	25012	158	514	VLQLIKAVWTQRTQKPSWLHP VDSAPGLQMELPASPVPCTCTP QPLGGRWDWALWSRGWRLLR RLGPHRSPRRS*GSGLWPWPAQ KGAPIVQRWAKGLLKCHQSGS PGRGGAESERGL
24875	55243	A	25013	1	693	
24876	55244	A	25014	119	304	DRRRCAHKITVIPKRMTIAGIRL PPQTVNI*LGNFLRALIASTAGI MTAQMVAHSPAPPIP
24877	55245	A	25015	361	540	
24878	55246	A	25016	191	446	AKRRLGVYDADCCSIDKTQSLS ACTTRNCGAYSKCLCGKYAKP VGGIPQPLQESHVR*CCNVMEL SPCSDFT**HPPGAVSQPQT
24879	55247	A	25017	1	2259	
24880	55248	A	25018	1	1170	
24881	55249	A	25019	3	1240	
24882	55250	A	25020	1	1259	MAGPRYPVSVQGAALVQIKRL QTFAFSVRWSDGSDTFVRRSW DEFRQLKKTLKETFPVEAGLLR RSDRVLPKLLGQASLDAPLLGR VGRTSRGLARLQLLETYSRRLL ATAERVARSPTITGFFAPQPLDL EPALPPGSRVILPTPEEQPLSRA AGRLSIHSLEAQSLRCLQPFCTQ DTRDRPFQAQAQESLDVLLRHP SGWWLVENEDRQTAWFPAPYL EEAAPGQGREGGPSLGSSGPQF CASRAYESSRADELSVPAGARV RVLETSDRGWWLCRYAGAGPE ELDTSARNAGALTRRREIRDAA TLLRLGLAYGPGGMSLREVTA WAQLHDVATLSDVALLKRLRN AADWFGILAAQTLAVRAAVTG CTSGK/QIASCRWNSNQCARGR QR*MATTYGI*SSYLSVH*F*AN RQQRR

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24883	55251	A	25021	803	2061	AKPAARGGILAAPVRDTLFLYF RLKKNQRQEGFINTYPWPKKP GIFYMCVPIKGANAQDVAAFC VTARGRQNCLWESIARGPALIN NRGAARGRCNDRVVEVDHGFA VLTFNFQGVSPGEFTQTVDHFD FAAFRHTSQTTGQLIDHFLFPGT NLVDIGFRFAEDDTVFSQRFGF FDNFCYVQQCFRRDTADVQAN TAKGVVTFYDYGFQTYWVKV LDPGSEVVAEAGDGASAIDLAH RLDIDVILLDLNMKGMSGLDTL NALRRDGVTAQIIILTVSDASSD VFALIDAGAAGYLLKDSDPEVL LEAIRAGAKGSKVFSERVNQYL RFREMFGAEEDPFSVLTERELAD VLHELAQGLSNKQIASVLNISE QTVKVHIRNLLRKLNVRSRVA ATILFQSAAFRSRFRRATSDNV
24884	55252	A	25022	1	1569	
24885	55253	A	25023	2151	2709	YLREASETARRQFTLPVILYNF RDLTGQDLTPETVTRLALQNEN IVGIKDTIDSVGHLRTMINTVKS VRPSFSVFCGYDDHLLNTMLLG GDGAITASANFAPELSVGIYRA WREGDLATAATLNKKLLQLPA IYALETPFVSLIKYSMQCVGLPV ETYCLPPILEASEEAKDKVHVL LTAQGILPV
24886	55254	B	25024	1	1201	

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24887	55255	A	25025	1	2209	MIGEIRDGETAEIAIKAAQTGHL VLSTLHTNSTCETLVRLQQMG VARWMLSSALTLVIAQRLVRK LCPHCRRQQGEPIHIPDNVWPSP LPHWQAPGCVHCYHGFYGRTA LFEVLPITPVIRQLISANTDVESL ETHARQAGMRTLFENGCLAVE QGLTTFEELIRVLGMPHGDGAA MDREENELGVSCIAVPVFDIHG RVPYAVSISLSTSRLKQLYAGLP VWCDGSRFFAQKARAIKCKQW GVVGAKSRQRWLFYAYDRLRK TVVAHVFGERTMATLGRLMSL LSPFDVVIWMTDGWPLYESRL KGKLHVISKRYTQRIERYNLNL RQHLARLGRKSLSFSKSVELHD KAAGGVPVLVRELLKAGLLHE DVNTVAGFGLSRYTLEPWLNN GELDWREGAEKSLDSNVIASFE QPFSHHGGTKVLSGNLGRAVM KTSAVPVENQVIEAPAVVFESQ HDVMPAFEAGLLDRDCVVVVR HQGPKANGMPELHKLMPPLGV LLDRCFKIALVTDGRLSGASGK VPSAIHVTPEAYDGGLLAKVRD GDIIRVNGQTGELTLLVDEAEL AAREPHISELSAFTFGTGRGYSA AFGVKCPFRKRALSDPCYAMR EVADFLINKGVDGLFYLGTGGE FSQMNTAQRMALAEEAVTIVD GRVPVLIGVGSPSTDEAVKLAQ HAQAYGADGIVAINPYYWKVA
24888	55256	A	25026	1	3395	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKYIPCSWLGRINIVKMAILAK VIYRFNAIPIKLPMTFFKELEKT TLKFIWNQKGAASRSNPEPKNK LEDHITNSTIYRLSTKSCSVSGL KQTLLAESEALTSYSHRVFSAW DFGLCGDVHVRLRQRIILYELK GQVPALLLDDGTLLTEGVAIM QYLADSVPDRQLLAPVNSISRY KTIEWLNYIATELHKELKFSFH WSTTSHKGLGM

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24889	55257	A	25027	145	681	FNGATQRIFDARGKPSTYIGSIQ HVNADVDQRATTLQFFIGKDTP AGNAAATQGAGGGNVNLSQN AVGHLFTQLLRIERKTMVKVV GQHLAQFARGIDISRACYHMA ARFQCHQGMFVMKTVR*ADA NHIRFHCQQHGLRIVPHGCIPVF FCQRLPLGKAAVTDSYQFQIRC GCSSTKH
24890	55258	A	25028	696	953	LSGLCSVRRAYPGGRSCPGVP* FVGLVARRPGGG*GSCFVLLHP QRSGTGGCL*QPPFPGAGAGRK IRECIRVGRSAGHAAGGET
24891	55259	A	25029	3	506	RGKPSTYIGSIQHVNADVDQRA TTLQFFIGKDTPAGNAAATQGA GGGNVNLSQNAVGHLFTQLLRI ERKTMVKVVGQHLAQFARGID ISRACYHMAARFQCHQGMFVM KTVR*ADANHIRFHCQQHGLRI VPHGCIPVFFCQRLPLGKAAVT DSYQFQIRCGCSSTKH
24892	55260	A	25030	291	560	
24893	55261	A	25031	63	404	
24894	55262	A	25032	660	1073	LSHECSFWLTNQLVSPRAQTVS GELQPAYAHGVLCRQYPSAFE KASETPQSSNPCPSSYTIHPTVE NFQTCRNQHLSKGCLINAGRA GPSPGTGGWGELEVAAAARLQ GAWKRHLQSSRPPGQALFASPP *WTGSVQ
24895	55263	A	25033	272	511	GSDTALPSAIAAPLLAAMAWLP PRERGTLAH/QVLEHYQLAQLP VSAL/QMPLHCPPQAIAHHQQL/ EQQALASLQNWGVFHV
24896	55264	A	25034	1	3300	
24897	55265	A	25035	1117	1376	PPPIGLTYSSSASPLSLFCTVRKP FSRSCW*QTNSNPISSCPELVTP SE*L*PRRSIRLDSLSAVRGFAS RIWLSSAITFPSGSLA
24898	55266	A	25036	207	427	DEHLQQRKKPLFLNYGRTEQA SVK*RISWVQNPERSSLC*GILA A*NPMSVSGL*LT*HCLSARRY ELVCQPK

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24899	55267	A	25037	2012	2547	LKFARPKLWGIFRNRQYHHML ER\RSQAIDAPALDRGAALGAL MRLEHPNASAEAALTMLAQLS PAQSGEALHGLLALARHQLAC QPAFIAGFSSHLNQLSEADFINA LPDLRAAMAWLPPRERGTLAH QVLEHYQLAQLPVSALQMPLH CPPQAIAHHQQLEQQALASLQN WGVFHV
24900	55268	A	25038	1	150	DKASRGRSRQQS/CAVLQPLLVI PRQT/WVWSGPPANSSRPGEEG PDC*KEN
24901	55269	A	25039	1	150	DEASRGRNRQQS/CAVLQPLLV IPRQT/WVWSGPPANSSRPAEEE PDC*KEN
24902	55270	A	25040	96	389	PCLSP*LYPSGVHKSTFIYGFYN T*PCTSQSLFWQHSC*GSITSSS YFYLLPEEGTGSNLCCSAASAG DTQANRVWSGPPANSSRPAAE GHDCWKEN
24903	55271	A	25041	1181	1364	VSLGNIKFRQTGAPLGQSFQRK EQSAIFAVLQPPLVIPRQI/WVW SGTPADSSRPAAEGPDC*KEN* RVNRQPTEWEKIFPIYPYDKGLI SRIYKELKQIYKKKIKPPHQKV GKGYVFSKEDIYAANRHMKKC SSSLAIREMQIKTTMRYHLTPA NRGIEIINCPFLDDAASCIDPTYS SNIFPPVNLSWGLPMKPKEVKI KRQKKEHLLKDRDFSFQEPIMA LRTVILEILMEKEMDNSQRECIK DILTKHLVELSILARTFKNTQLP ERAIFQIKQYNSVSCGVSEWQL EEAQVFWAKKEQSLALSILKQ MIKKLDASCAANNPSLKLTYTE CLRVCGNWLAETCLENPAVIM QTYLEKAVEVAGNYDGESSDE LRNGKMKAFLSLARFSDTQYQ RIENYMKSSEFENKQALLKRAK EEVGLLREHKIQTNRCPSGTKL PEEGTVSNLCCSAASTGDTQAN RVWSGTPADSSRPAAEGPDC

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24904	55272	A	25042	42	963	VQEGCVRPFCCRSAGVCWRST PDSVCLGITSGGCRTAKTAACS FLWKLCPRGTPARCQVECSYTR CLS\SLLGGVSQAGGTRVRDPL EEEVCPLAELERCAGRSVAVFR ASRQEHLRLLKLTSQPPLPPGA LSQGDGSFIYKPLTGVAAFLSD ALPKRRNLERQSGYSTFEELCF QKRTWGRDAVRISDLLLGDHS HFGKCPISRLERAENMPVVSEL SAAGCSTEVNHVFVGIIWQKGK CSKYTAPSKSSVPVSSTRGHVHI TVQNPTLVPFVGKLNIDSPIGDR NIPVLTAGNCKTLGDLRSFPHN
24905	55273	A	25043	98	352	
24906	55274	A	25044	3	414	PEEALCALAELERCAGRAAALF RAERQKRLRLLKLHPQPPLPPG ALSQRDGS\LSISP*LGL\RLSFR DALPREQFYRLFTDRSDRVPEN SVTDVCHIESKMEPLRLGP/SNV SIMRPSLVCSFTTLVFISSNAQSS LVA
24907	55275	A	25045	2	1544	STTRGSPPQEARQYRHNQAYA YSIQGDGAEDDDERIVRFHTRL PVFMLPPTPRKTSWIVAPVLEV LARAIRHETEIQGIHTGTEDVPV SLFADDMIIYLDNLKDSSRKLL EVIRDFSKVSGYKINVHESVAL LYTNNDYAENHIKNSTPFTIGY VLAFVVMVIAVSCVRLLYAHN CTQHTSLKHKCQAWVVTTVDA AAFMTQATREERRIAYSAPGGY FFHILEVLARTIRQEKEIQGIQTG KEEVKVSLFADDMIIYLENLKD SSRKLLEVIKEFSKVSGYKINVD SRGSPTDLVIYKEEIVFLIVPKA KKSKIKVLASDPLCYAATTWR MTIIAGLPVEYNDRFIRGIAVFA PWRKTPGIYHQSHDPLCYAATT WRMTIIAGLPVEYNDRFIRGIA VFAPWRKTPGIYHQSHGACLG RRSRTITVVDAQPQVMDMDPT CSLFTTGQCLGEPDLLASARRL QFFSHQYSIAVLMANARGNSA\ LW\DNYGGLIVRADRGSLLLVG

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24908	55276	A	25046	1	1228	MLQSNRTAASHSPSIQPAIQPAI QPASQLSIHNLWTQFRHSTKIPV EWVNGEWLNGRMPEDHHEWQ CNYQNVQQFIDEGNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTRETVDFNGKHIHVR GAKLLFPAIQQPYPPLYFGGSSD VAQELAAEQVDLYLTWGEPPE LVKDFIEQVRAKAAAHGRKIRF GIRLHVIVRETNDEAWQAAERL ISHLDDETIAKAQAAFARTDSV GQQRMAALHNGKRDNLEISPN LWAGVGLVRGGAGTALVGDG PTVAARINEYAALGIDSFVLSG YPHLEEAYRVGELLVPLLDVAI P\EIPQPQPLNPQGEALRKK
24909	55277	A	25047	1	1075	MTIKGEQAKKQLIAAALAQFGE YGMNATTREIAAQAGQNIAAIT YYFGSKEDLYLACAQWIADFIG EQFRPHAEEAERLFAQPQPDRA AIRELILRACRNMIKLLTQDDT VNLSKFISREQLSPTAAYHLVH EQEAEHRFAMGELPDEVLEICQ RLAKLTEMLRGLAELFLNDLSE KTGSHDIVRLHRLILQMNRALG MFEAQSKLWRLASLAQSSGAP VTKWATREEREGQLHLWFHCV GIRVSDQLERLLWRSIPHIIVTS ATLRSLNSFSRLQEMSGLKEKA GDRFVA/SGFP/HLTTANRAKLL FPGCALSLPSTTKSSILPKWRPF SVSRWRAKNISVCWYCLPADG RCSAFSTM
24910	55278	A	25048	530	642	LKTLW/PAVQEPVPHRYHGATV FRIMQTIFIKQICRLLL*GTAGHF VCGITACHAAEAAHRLTVQPVP RILDQRRPAQLHSRQVTAAIRQ PLHRRQAVRRDAVCQPLLVVC VFRLMLPQQFPRLRVLHRLAFA GQAAFIVIAIVDGNTVAFAQVA DVCQPAVAIILPLLLCEFSGQVI MITLRPPVKAALLYQPVQRIVT EDAVAAVQEPVPHRYHGATVF RIMQTIFIKQICRLLL
24911	55279	A	25049	1075	1479	

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24912	55280	A	25050	2	588	RWSSLTSSRYGFCRCPESADKE CLHVKSAAGKKATNVGHYAG WLRTYSPHLAAHRVNFFFGINA HMDQRGPGRLMISCNEACGSA CYSNHSYMRNDKHAVRRADSG RAEGGGPRVKSVIKAPVITPKK KPVVSTLKHWVLMLAWVTCSP LTVL\SPDGEMFDVMEKYAFSA WKWKRLRLAISQATFHALLPE KIG
24913	55281	A	25051	912	1169	
24914	55282	B	25052	1	1665	
24915	55283	A	25053	43	302	
24916	55284	B	25054	116	1534	
24917	55285	A	25055	1	1017	NVQQFIDEGNYTSGDNHTLRDP HYVEDKGHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQQSAKKRDAELANG ALGIIELNNDYTLKKVMKPLITS NTRETVDFNGKHIHVRGAKLLF PAIQQPYPPLYFGGSSDVAQEL AAEQVDLYLTWGDPADLIVNEI VEQVRAKAAAHGRKIRFGIRLH VIVRETNDEAWQAAERLISHLD DETIAKAQAAFVARTDSVGQQR MAALHNGKRDNLEISPNLWAG VGLVRGGAGTALVGDGPTVAA RINEYAALGIDSFVLSGYPHLEE AYRVGELLVPLLDVAIP\EIPQP QPLNPQGEALRKK

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24918	55286	A	25056	1	2677	MVLNRLLTGLFFGSTPPRCHYD LIGADPDRTIRSVRLYWRHSLN ELISMLPKFNKELTRKLFKLQE MLPFLNLHMSPERMLQRMDSE KVVTFTTALMTGLSGAMASVL LLVMTVVFMLFEVRHVPYKMR FALNNPQIHIAGLHRALKGVSH YLALKTLLSLWTGVIVWLGLEL MGVQFALMWAVLAFLLNYVP NIGAVISAVPPMIQVLLFNGVY ECILVGALFLVVHMVIGNILEPR MMGHRLGMSTMVDGVRVLKD GTDLNQTGSFYLAARPYAEKN GAFIQGVLATFSEADALTRSQR EQSIALLAKTMGLPAPVIASLLE ISQPVSNHPIRTRLTAEVAALQQ QTADLFYENRLVPKKVDIRQRI WQPTRLEGKQFMSLNMFWFLP THGDGHYLGTEEGSRPVDHGY LQQIAQAADRLGYTGVLIPTGR SCEDAWLVAASMIPVTQR\LKF LVALRPSVTSPTVAARQAATLD RLSNGRALFNLVTGSDPQELAG DGVFLDHSERYEASAEFTQVW RRLLQRETVDFNGKHIHVRGA KLLFPAIQQPYPALYFGGSSDV AQELAAEQVDLYLTWGEPPEL VKEKIEQVRAKAAAHGRKIRFG IRLHVIVRETNDEAWQAAERFV LSGYPHLEEA/YRVGELLFPLLD VAIPE/IPQPQPLNPQGEAVAND LSPRRTVAASGDQLLAGAVGFS
24919	55287	A	25057	114	372	
24920	55288	A	25058	2270	2760	TSPIPSQIRQYSIA/VGSTGNLGL SIGIMSARIGFKVTVHMSADAR AWKKAKLRSHGVTVVEYEQD YGVAVEEGRKAAQSDPNCFFID DENSRTLFLGYSV/AGQRLKAQ FAQQGRIVDADNPLFVYLPCGV GGGPGGVAFGLKLAFGDHVHC FFAEPTHSPCMLL
24921	55289	B	25059	1	2460	
24922	55290	A	25060	1	993	

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24923	55291	A	25061	332	1349	ILYDSDIYRFSCRSGGHIPAVIY HLSAKRRTMENAKMNSLIAQY PLVKDLVALKETT/WGFIPATL HGVKGLPYVGLTEQDVQDAH\ ARLSRFAPYLAKAFPGKWLPTG GIIES\ELGAL\PAMQKRL\EKEY QQPISGQLLLKKDSHLPISGSIK ARGGIYEVLAHAEKLALEAGLL TLDDDYSKLLSPEFKQFFSQYSI AVGSTGNLGLSIGIMSARIGFKV TVHMSADARAWKKAKLRSHG VTVVEYEQDYGVAVEEGRKAA QSDPNCFFIDDENSRTLFLGYSV AGQRLK\AQFAQQGRIVDADNP LFVYLPCGVGGGPGGVAFGLK LAFGDRVHGLQA
24924	55292	A	25062	284	1494	RLSLPDMFPPVQQFPVSLHRAF YRYDKSAYYALRIAGIASRLNP RRFSPSILTPERRCVVTLRNDIR RDVLRHNQPRSTASTRQARRR MKSSCWHMPTTSKPQALSHTS NSPTTSISRPNWSYSNVCNRSRT MANLSGYNFAYLDEQTKRMIR RAILKAVAIPGYQVPFGGREMP MPYG\WGTGGIQLTAS\VIGESD VLKVIDQGADDTTNAVSIRNFF KRVTGVNTTERTDDATVIQTRH RIPETPLTEDQIIIFQVPIPEPLRFI EPRETETRTMHALEEYGVMQV KLYEDIARFGHIATTYAYPVKV NGRYVMDPSPIPKFDNPKMDM MPALQLFGAGREKRIYAVPPFT RVESLDFDDHPFTVQQWDEPC AICGSTHSYLDEVVLDDAGNR MFVCSDTDY
24925	55293	A	25063	1	333	

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24926	55294	A	25064	1368	2451	PAHAAPGGGC/VRSLACRFLWN MRVTGKSYSTLRRVLSAIWNW RMMRCALTRALVAFRVR/SSVP LAAVLAIYARENGAGTMFEPE AAYDEDTSIMNDEEASADNET VMSVIDGDKPDHDDDTHPDDE PPQPPRGGRPGLRGLTLRWFSV AAQRSDILDAVTLSLKVAALAT LIALVLGTLAAAALWRRDFFG KNAISLLLLLPIALPGIVTGLALL TAFKTINLEPGFFTIVVGHATFC VVVVFNNVIARFRRTSWSLVEA SMDLGANGWQTFRYVVLPNLS SALLAGGMLAFALSFDEIIVTTF TAGHERTLPLWLLNQLGRPRD VPVTNVVALLVMLVTTLPILGA WWLTAKATYLEKLKV
24927	55295	A	25065	1	2072	MSEQLTDQVLVERVQKGDQKA FNLLVVRYQHKVASLVSRYVP SGDVPDVVQEAFIKAYRELTPR RPYLLRAFYEWLLDNQLTPHL VVDVTLPGVQVPMEYARDGQI VLNIAPRAVGNLELANDEVRFN ARFGGIPRQVSVPLAAVLAIYA RENGAGTMFEPEAAYDEDTSI MNDEEASADNETVMSVIDGDK PDHDDDTHPDDEPPQPPRGGRP ALRVVNVIVAIIFTTKPTAMGIA VRFTTAKGETPAIPDVTTTTAVI GETARASVVAKCIGIIITTAVPIV VKPFANISPATTSVPRFFGLPAS SSHTLIGAIIGIGLTNALLTGSSV MDALNLREVTKIFSSLIVSPIVG LVIAGGLIFLLRRYWSGTKKRD RIHRIPEDRKKKKGKRKPPFWT RIALIVSAAGVAFSHGANDGQK GIGLVMLVLVGIAPAGFVVNM NASGYEITRTRDAVTNFAARES EASVIRHSNRFIETINGGRRCSR GITLTLHKLR\SAQPLL\AVLNR LEQKKPVGLRYDPQAQSLVCLP TQTRTGWNLNGFEVGFRPCVR LMIYGRSLEAQATASLAAATG YDSHIFDLFPASASAQIDTDTAV ILLCHDLNRELPVLQAAREAKP FYLGALGSYRTHTLRLQKLHEL GWS\RQETTQIRAPVGIFPKARD AHTLALSVLAEVASVRLHQEE

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24928	55296	A	25066	2	332	AGYSTRTALAIVNKPPSSAIPPT SGLASRKRNPASNDFNGCSRGC GGGGNAGRLNNGSKRSASTPP TIRPTNIAPP\AASPKAPPARWN VSSSGSAPAPRRRANPETQLR
24929	55297	A	25067	1	3192	MNKKFKYKKSLLAAILSATLLA GCDGGGSGSSSDTPPVDSGTGS LPEVKPDPTPNPEPTPEPTPDPE PTPEPIPDPEP/TPE/PEPTPEPTPD PEPTPEPIPDPEPNQNGAELSYN TEKTLTIRDSVFTYTENADGTIS LQDSNGRKATINLWQIDEANNT VALEGVSADGATKWQYNING ELVITGDNATVNNNGKTTVDG KDSTGTEINGNNGKVIQDGDLD VSGGGHGIDITGDSATVDNKGT MTVTDPESM
24930	55298	A	25068	1078	1317	
24931	55299	A	25069	135	361	SCSMLAGLCG*GSSSSVSITTCF ALSASTIA*PREPQQALPV*PLA LPNSSQDGTPMKATSIFSSPLCT RCTRPP
24932	55300	A	25070	469	841	RWWKQYAAAGFQCMCATAVS NLTRPVAA*TAAIPESKSPVLPN SPASTVRRS*PVSTMPPIRPGDG DHDPRFKAPSGTPHQPPRAGHS L\RRHG*TENCTAA*GQLRTPG DNGTVMSADTITFP
24933	55301	B	25071	1	2922	
24934	55302	A	25072	1	3849	
24935	55303	A	25073	1	2280	
24936	55304	A	25074	672	1045	GAVLSINCRTLSPAAASGENVA TPP/VTSNNNTPIINKPKPLALAE ATGVIIAPKPPSSAAPMASPVTF CAVHKPLIRPNIASGVCVCSIVY CSNELTALNQPNSARQTTPKIHI GIRPNRPMARN
24937	55305	A	25075	650	1465	RKPICAADICQLSASAGYSTRT ALAIVSGLASRKRNPASNDFNG CSRGCGGGGNAGRLNNGSKVI NVPAAASP*FQATPPVASNKPPI MGEITDPRRTVNMVIAPACIKF SRPTSAGVAANSAVTPSDAKKP SHKPSK*IASNDGSGSSALRHSP MKPMPQVPRASKITFLRS*RSA STPPTIRPTNIAPPVSVTESPTCQ VECVIIWICTGTATPSKPRDTIE MKRARNTARNAGCVSAGSSGS SAEVGSSNSKTSGSIASARAIET RCC

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24938	55306	A	25076	156	3092	LNRRWIANIAKLEAEQARKLK KTEKDSLKDEVLHSLLPRAFSR FSQTMMWIDTVNGLIMVDCAS AKKAEDTLAVLRKSLGSLPVVP LSMENPIELTLTEWVRSGSAAQ GFQLLDEAELKSLLEDGGVIRA KKQDLTSEEITNHIEAGKVVTK LALDWQQRIQFVMCDDGSLKR LKFCDELRDQNEDIDREDFAQR FDADFILMTGELAALIQNLIEGL GGEAQHSGTGSLPEVKPDPTPN PEPTPEPTPDPEPTP
24939	55307	B	25077	61	2118	
24940	55308	A	25078	132	280	RRRAALPERSGPGLDHRRVRH/ GCHVLPTPVTLVKRRKVSRVD AQWKSSV
24941	55309	A	25079	1	1449	
24942	55310	B	25080	110	550	
24943	55311	A	25081	657	805	RRRAALPERSGPGLDHRRVRH/ GCHVLPTPVTLVKRRKVSRVD AQWKSSV
24944	55312	A	25082	756	938	
24945	55313	A	25083	781	1257	
24946	55314	B	25084	1	2727	
24947	55315	A	25085	1	2286	
24948	55316	A	25086	1161	2024	VRSAVWPCLQRDPDCHHNRCG TGGTSRPGPARNPRIEPETCVG\ RIRNLGVLLYDADAMERAAST ENEKDLVQRQLDVFLDPNDPK VIEQAIKDGIPLSVIEAAQQSPV YKMAMEWKLALPLHPEYRTLP MVWYVPPLSPIQSAADAGELGS NGILPDVESLRIPVQYLANLLTA GDTKPVLRALKRMLAMRHYK RAETVDGKVDTRALEEVGLTE AQAQEMYRYLAIANYEDRFVV PSSHRELAREAFPEKNGCGLPF GDGCHGSDTKFNLFNSRRIDAI D\KTEPHP
24949	55317	A	25087	664	1065	VAPEPHHGRKQLCREGLGVFH PTHHITHHLGVSLSLLITIFDAQS VHGPDDGCQGLDSVAVDNRLV LFHVFSGEAIFMDDLHLLHNGA FS*FSSPEQE*F/PRLWRR*CHPL *GFSQSPCSARGRLSPLRSEYIP

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24950	55318	A	25088	434	1663	PAGAFPDIANDFGEKSLLMPGG AVINGDF\NNVLPVDLVDPQQV QEFVDHAWYRYPNDQVGRHPF DGITDPWYNPGDVKGSDTNIQ QLNEQERYSWIKAPRWRGNAM EVGPLARTLIAYHKGDAATVES VDRMMSALNLPLSGIQSTLGRI LCRAHEAQWAADAIENNYSRN PSQGYSTVPRSPHPKVDPILTKP SGPAGPEMTRKQTQREDRPRSR PSMTTSPTSNLKPSVPAFKGVG YLDSLDRIGAADYQPTEQDILR TRVKTTGIVETHFTFKNLHFRT EQASVHACYCRLFDVEGQRSE RKKWIHCFEDVTAIIFCVALSG YDQVLHEDETTVLSTRIVDGHR YSDHSTIACPAFGTYTLLELKEL ALSCSTLLHIPHQRSPAGSFLAD NLNCTQAAVIPEFGGF
24951	55319	A	25089	1	1247	MTFGGDQIFESLVYRSAFRHVY SRGSPWYLHTNSDLSFVESKKE LIAEHILETFPWNLKGLTEIPWG DASGESGAVGLGVLAAVHYHP QRQSLMEKLALNKDAVVLVIS TEGDTDQVIERLESDAVLRYGI EDVVTNLDVLERMQPSESLLRA VLHTKHLMNPEVLAAARRIVC QVVEEIMARLAKEVRQAFSGV RDRRRRSFIPLARNFDFKSTLRA NLQHWHPQHGKLYIESPRFNSR IKRQSEQWQLVLLVDQSGSMV DSVIHSAVMAACLWQL\PGIRT HLVAFDTSVVDLTADVADPVE LLMKVQLGGGTNIASAGEYGR QLIEQPAKSVIILVSDFYEGGSSS LLTHQVKKCVQSGIKVLGLGA LDSTATPCYDRDTAQALGNVG AQI\AALMPGELGSLAWENLLA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hnd	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codnn for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24952	55320	A	25090	1	1691	MGAYLIRRLLLVIPTLWAIITINF FIVQIAPGGPVDQAIAAIEFGNA GVLPGAGGEGVRASHAQTGVG NISDSNYRGGRGLDPEVIAEITH RYGFDKPIHERYFKMLWDYIRF DFGDSLFRSASVLTLIKDSLPVS ITLGLCWYFVCRACVVTHALSL WQSASIEVPRTSATAKARKTEP GRQTKRKVRSSQTVAARQRIAT LPHSMTVCNPGLFHSQMADAL AHRYYGFNIAEPWDNGSEAML QRDIGLKSESRGLMAGKRCSCL KGECGWSLDMQARVSTCFYVR LICGTELEDHRICIIDTCDNKCG PQRRYVIKFRELCLVNSTVTLV DQEYELTVTDPELYDGSSQALA GISDLSSIYATCDPGYSCTDRVT LVDVRKRQSKTGPYKEIGRYGI DRNRSPLNPGFRGKPDLMPSQC IACGACACACPANALTIQTDDQ QNSRTWQLYMGRCIY/CDGRCE EVCPTRAIQ\LTNNFVLTVTNKA DLYTRATFHLQRCSRCERPFAP QKTIALAAELLAQQQNAPQNR EMLWAQASVCPECKQRATLIN DDTDVLLVAKEQL
24953	55321	A	25091	1	866	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide locatinn nf first codon for peptide sequenee	Nucleotide location of last codon for last amino aeid of peptide sequenee	Amino aeid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24954	55322	A	25092	338	2388	CVQEPLITVSWRLFAIPAGMKF SLFLRCLFCFHLAARYLVLLCQ LH/SQGIKVLDFTGVQSGPSCTQ MLAWFGADVIKIERPGVGDVT RHQLRDIPDIDALYFTMLNSNK RSIELNTKTAEGKEVMEKLIRE ADILVENFHPGAIDHMGFTWEH IQEINPRLIFGSIKGFDECSPYVN VKAYENVAQAAGGAASTTGF WDGPPLVSAAALGDSNTGMHL LIGLLAALLHRELNMTVAEIVE REEWAGFRARETAALEAVTAP STVIATGGGIILTEFNRHFMQNN GIVVYLCAPVSVLEDFRQRTME VLRLAFLSSGILEFFTSLSIALVA VYFGFSYLGELDFGHYDTGVTL AAGFLALILAPEFFQPLRDLGTF YHAKAQAVGAADSLKTFMETP LAHPQRGEAELASTDPVTIEAE ELFITSPEGKTLAGPLNFTLPAG QRAVLVGRSGSGSRYCPYINHR NVRLGPIVTDVPWENSGDKSLP EATAQVISSGSGATKVEDGLGD LNKPVSNQNLVTGIDTPVYNAP SAGSAPFGVLADNMRYPILHKL KDRLNQTWYQIRIGDRLAYISA LDAQPDNGLSVLTYHHILRDEE NTRFRHTSTTTSVRAFNNQMA WLRDRGYATLSMVQLEGYVK NKINLPARAVVITFDDGLKSVS RYAYPVLKQYGMKATAFIVTT
24955	55323	A	25093	1810	2399	STFRNSDDEPYIVRPVAVAWRD YVPQPARNGLSNFTGNLEEPAV MVNYFLQGDPYQGMVHFTRFF HQHPSGLS*WVAGNIFQILCAN QPVRKRTRDNVQLLHSRGQRG VFRCSRRVLTGLVDRFGRTQTF HREAAGEFSGEITGVTDGAWR HFRLVLTTQAQRAEEARQQAIS GGTEPSAFPDTLPVDTEYVMNF
24956	55324	A	25094	1	577	MPVSTAVATVIKTKQVEFQLQ VGVPLYFRLRANPIKTILDNQK RLDSKGNIKRCRVPLIKEAEQIA WLQRKLGNAARVEDVHPISER PQYFSGDGKSGKIQTVCFEVIG CREEPDAEECHGDREQRRVFIR EDGFFVTKDLYPNRRA\GIISTT AVISPSQPPIIAPRVAQSSEPRSA AHALARAIRQSTTV

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24957	55325	A	25095	51	407	TCPIRAQRVETLYDRAYREVFG WNPRGPTGRPNARHTG*SKEG GRTEADETDAADSGQRGMEQR SEMDRKPTGTTGQRSEKPRRTL ECLALHETRIFLPQRKETHSSDA HDMPGPPML
24958	55326	A	25096	3047	4131	AHSGQMYMPLSSCIRSCILGSV VMTCGFPQKSAGQKRQKTADC RKRPQLYTKSLSLS/AVKAILAK GYDPVKWRKKDKVLDAVLKE LESGKYSDGDKHAFDQMLHSI GKQGGDPYLVMADFAAYVEA QKQVDVLYRDQEAWTRAAILN TARCGSSMESKRLDNAALAAGI SPNYINAHGKPQSISAETKRRLL DAMHQRTATKVAVTPVPNVM VYTSGKKMPMVVEGSGEYSW LLTTEEGTQYKGHVTGGKAFN LPTKLPEGYHTLTLTQDDQRAH CRVIVAPKRCYEPQALLNKPKL WGACVQLYTLRSEKNWGIGDF GDLKAMLVDVAKRGGSFIGLN PIHALYPAIRRAPAHTARLLAV
24959	55327	A	25097	524	697	AANWWWKSRRNWR*KMTAM LDRIISHIIRTVRMSGSVAVTRAI AVPGLLLLLIIATA
24960	55328	A	25098	1	1938	
24961	55329	A	25099	33	226	

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24962	55330	A	25100	1	2314	MDRAGDGPIRPLSGPTDVYGDT VYLRDPGPNHGKTTNGPLRFVP LLPFGQQVFPRVTPNFWNPVSS AALPARYMQTIENAAVWAQIG DKMVTVGNIRAGQIIAVEPTAA SYYAFNCGFGKAFIDKGHLEPV QGRQKVEDGLGDLYKPLSNQN LVTWKDTPVYNAPSAGSAPFG VLADNLRYPILHKLKDRLNQT WYQIRIGDRLAYISALDAQPDN GLSVLTYHHILRDEENTRFRHT STTTSVRAFNNQMAWARVDRG YATLSMVQLEGYVKNKINNRA TEREELRVSKITVLILGVIAIILG VLFENQNIAFMVGLAFAIAASC NFPIILLSMYWSKLTTRGAMMG GWLGLITAVVLMILGPTIWVQI LGHEKAIFPYEYPALFSITVAFL GIWFFSATDNSAEGAHLRPIRR KKVYRFNYLRSDGPYQGWVSE RLLILRAISPGCSKLVHFPTLFDS LYRTLVKAGEKSGLLAPVLEKL ADYNENRQKIRSKLIQSLIYPC MLTTVAIGVVIILLTAVVPKITE QFVHMKQQLPLSTRILLGLSDT LQRTGPTLLATVFIVAVGFWL WLKRGNNRHRFHAMLLRVALI GPLICAINSARYLRTLSILQSSG VPLLDGMNLSTESLNNLEIRQR LANAAENVRQGNSIHLSLE/QT/ AIFPPMMLYMVASGEKSGQLG TLMGAQSHWECATVNAASRIR
24963	55331	A	25101	20	825	GFPRSRSCYASCTACRTHTYSA EK/QLTRALAKLARATSNEKLS QAFHAHLEETHGQIERIDQVVE SESNLKIKRMKCVAMEGLIEEA NEVIESTEKNEVRDAALIAAAQ KVEHYEIASYGTLATLAEQLGY RKAAKLLKETLEEEKATDIKLT DLAINNSFYKEDIFMNRIEHYH DWLRDAHAMEKQAESMLESM ASRIDNYPELRARIEQHLSETKN QIVQLETILDRNDISRSVIKDSM SKMAALGQSTADTTKNSTHRQ SNTRQGN
24964	55332	A	25102	2	269	GIIGLHLQQQEAVAVAIVRGAT RMLFATLVAVAAGERHYQRW ADC*CAAAG*NVVTVESRTAA ASSHYVGVSRQSHITAVISAPV DVPW

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24965	55333	A	25103	607	727	RQAVYRG**TAGQRANLLLLR RHSACALAAGESQSSCPAG
24966	55334	A	25104	465	574	
24967	55335	A	25105	3	636	AHTSGFGDKESEKVSPQRKLHA MSRTFFWEN\LRCHGNLGSPTY AFQISAIDRVNFALVVGLHLRH DYRNEKLGRSGRHYQAPVGNR SSADGMHRDPCSQLDICCILLG AGSIYGLYRYIEPQLPDVATLK DVRLQIPMQIYSADGELIAQYG EKRRIPVTDGPVMWFPFMIITTC VKGNFALNNQFREDMLNYNTE GIYGKNVNFENNKQT
24968	55336	A	25106	434	1205	
24969	55337	A	25107	368	532	
24970	55338	A	25108	722	934	
24971	55339	A	25109	82	420	ARADPHRAHTAGVNGVNARLR IFNADTCLRRHAQPCTGGEKDF RVRFRVFKLGSIRAEGEKLAQL QRR*NRRRIQGDRSQPNRD/RA VPEDLPSKERMPGRTALTVNSR SEWT
24972	55340	A	25110	618	788	WYPCCRNWRYLAGGDSGFCR GERA*R*IASQSGVT*AVATVV FPSVLAGLRITGHS
24973	55341	A	25111	186	1198	QKTAVSTSITALTRWGS/SRA/G KRGAVLRSRVTRGKYHYPSSW RETSSSVQNAPLMRQIKEVFLAI RIEQLLTKDEILELYLNKIYLGY RAYGVGAAAQVYFGKTVDQL TLNEMAVIAGLPKAPSTFNPLY SMDRAVARRNVVLSRMLDEG YITQQQFDQTRTEAINANYHAP EIAFSAPYLSEMVRQEMYNRY GESAYEDGYRIYTTITRKVQQA AQQAVRNNVLDYDMRHAIAA RHYVLWKPTANIRARYKAQGI ELPAVVPAGPDNPMGHHAIRL AAYGGVYLLHGTNADFGIGMR VSSGCIRLRDDDIKTLFSQVTPG TKVNIINTPIKVSAEPN

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24974	55342	A	25112	1087	3289	RLRSCGAQKNTFCNAAAGCRW RTTLSKMGGLLIAADLQDPVQ DMEMWQFHPTGIAC/AGVLVT E/GCRGEGGYLLNKHGERFMER YAPNAKDLAGRDVVARSIMIEI REGRGCDGPWGPHAKLKLDHL GKEVLESRLPGILELSRTFAHVD PVKEPIPVIPTCHYMMGGIPTKV TGQALTVNEKGEDVVVPGLFA VGEIACVSVHGANRLGGNSLL DLVVFGSARQVLHLQESIAEQG ALRDASESDVEASLDRLNRWN NNRNGEDPVAIRKALQECMQH NFSVFREGDAMAKGLEQLKVI RERLKNARLDATSSEFNTQRVE CLELHNLMETAYATAVYATFR TERRGAHSR\FDFPDRDDENWL CHSLYLPESESMTRRSDYTLEA DEGRDMMLLDALIQLKEKDPS LSFRRSCREGVCGSDGLNMNG KNGLACITPISALNQPGKKIVIR PLPGLPVIRDLVVDMGQFYAQ YEKIKPYLLNNGQNPPAREHLQ MPEQREKLDGLYECILCACCST SCPSFWWNPDKFIGPGSLLAGY RSGLIAGIPKCSARYLSGEKRSV AWQQIAAEIGISIDAQFNESLKG ISRDESLRRILQHGGKEGDFNSQ ERAQLAYRKNLLYVHSLRELT VNAVLPGIRSLLADLRAQQISV GLASVSLNAPTILAALELREFFT FCADASQLKNSKPGPGIFLAGC
24975	55343	A	25113	47	630	VGWETSFAQIRSRFLRIRFCRAY SSTLFVSAANPTT*G/QMVF*CG NGAQHKNILLLYRSIHGGFHFQ RGHHINTFNKRWRR**NRT*YQ RDVRATTGSGGGDRKTHLAGA VIRDITHRIERFTRRAGGNHNV QMFQVVDGRKCATAISTVLDM FGDHFGRQKIASCQRWLAKTIR TVQQPICKNIVRKPGCHSLA
24976	55344	A	25114	731	829	

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24977	55345	A	25115	2	3744	RLPFKVPVKVKPLPAPFSKILLN SPAIPQLPITMNGSDFSLPEGPM NRWENIQLTPETRLAPRAYFFS YDSVAQARTFARETSSLFLPLS GQW\NFHFFDHPLQVPEAFTSE LMADWGHITVPAMWQMEGHG KLQYTDEGFPFPIDVPFVPSDNP TGAYQRIFTLSDGWQGKQTLIK FDGVETYFEVYVNGQYVGFSK GSRLTAEFDISAMVKTGDNLLC VRVMQWADSTYEKDQDMWW SAGIFRDVYLVGKHLT
24978	55346	A	25116	1	2643	
24979	55347	A	25117	2499	2935	RSGGVACNCAVSASCMLVTVL PWLSLPV/SVFGLWDGFFASLG VTALLAATPA\W*GVKT*CRPG RSP/SLTVRLGSVISPMIGGLLLA TGGVALLPLLSLPALPPPPQPRE HPLKSLLAGFRFLLASPLVGGIA LLGGLLTMASAVRV
24980	55348	A	25118	676	1035	
24981	55349	A	25119	1	1842	
24982	55350	A	25120	1	1341	
24983	55351	A	25121	563	1360	PSVLRCRNWVI*SPYCISLPSRV SSLPFLVWIPVAR/CTAIGASRE AMLGVLVEPMLLLGLWVAAQ VAGSTNISNITDTVYHWPLSQSI PLVLALCACAFATFIEMGKLPF DLAEAEQELQEGPLSEYSGSGF GVMKWGISLKQLVVLQMFVG VFIPWGQMETFTAGGLLLALVI AIVKLVVGVLVIALFENSMARL RLDITPRDMIRIELDSWEQNGE AIKRTGQPLLLSLLVRNLLDNA VRYSPQGSVVDVTLNADNFIVR
24984	55352	A	25122	382	1424	VLLENLSEPPNQHDIIEILTVQR KEEETALSCRLVLRKLTETEPVI IFEGIEAPATLPADEVPVGKDEN DNVEVSRWGTPREFDFEVRDH VTLGEMHSGLDFAAAVKLTGS RFVVMKGQIARMHRALSQFML DLHTEQHGYSENYVPYLVNQD TLYGTGQLPKFAGDLFHTRPRH ECFRHIGSLGLATPLVTECMQW LFGIPHTLQLDAIIITCWIILNAIC VACGLQKGVRIASDVRSYLSFL MLGWVFIVSGASFIMNYFTDS VGMLLMYLPRMLFYTDPIAKG GFPQGWTVFYWAWWVIYAIQ MSIFLARISRGRTVRELCFGMV QEFGCKSSTKIDNADFNQA

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24985	55353	A	25123	416	610	
24986	55354	A	25124	662	811	AQQLPGMSDWQNSQEQHQMK N*VRLFMRTSRKLMDRLNVLIK LWSPNRT
24987	55355	B	25125	1	3264	
24988	55356	A	25126	489	3256	PRVFSSATRSLVAMRRWVYRV RRIQYRRTTQTAVFHSTHGNYR EGQPVGTLIDDRYKANENVEL VHYAQPLLNEADSLAKVMPSDI PLKQRRWLGLQMLEGDIYSRA YAGEASQHLDAALARLRNEMD DPALHIADARYQCIAAICDVVS NTLTAEPSRFTTAVDKIVLNRFL GLPIFLFVMYLMFLLAINIGGAL QPLFDVGSVALFVHGIQWIGYT LHFPDWLTIFLAQGLGGGINTV LPLVPQIGMMYLFLF
24989	55357	A	25127	779	910	
24990	55358	A	25128	2203	2665	ACWARISAAVIQRSGMPGVRV CGRIKSCSKAVRCQRHVFATCV WNGRQVTSGAGTWSTIAWYSG VMSSAISSWSRPAIPFSAEA*TIG KSSC/YVGRVEVNEQIEYLIHNP IRTRARAVNFVDNNNRLQAVS KRFFGYEARLRHRAVKCVNHQ QH
24991	55359	A	25129	241	918	
24992	55360	A	25130	2142	2646	KGVCGTTNPAKIQAILQAFHEI FGEGSCHIASVAVESGVPEQPF GSEETRAGARNRVANARRLLP EADFWVAIEAGIDGDSTFSWVV IENASQRGEARSATLPLPAVILE KVREGEALGPVMSRYTGIDEIG RKEGAIGVFTAGKLTRASVYH QAVILALSPFHNAVY

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24993	55361	A	25131	473	1765	KAWLMTGIVRHWKGRAVPPA EQLLEHLGNGKSFDSVAQAWD AAMADAKAEDTVLWGVEAFRI NAAVAKDDTQIHTHMCYCEFT DIMDSIAALDADVITIETSRSDM ELLESFEEFDYPNEIGPGVYDIH SPNVPSVEWIEALLKKAAKRIP AERLWVNPDCGLKTRGWPETR AALANMVQAAQNLRRGARAG CAADFAASARLAVGEALTNIA ATQIGDIKRIKLSANWMAAAG HPGEDAGLYEAVKAVGEELCP ALGLTIPVGKDSMSMKTRWQE GNEEREMTSPLSLVISAFARVE DVRHTITPQLSTEDNALLLIDLG KGNNALGATALAQVYRQLGD KPADVRDVAQLKGFYDAIQAL VAQRKLLAYHDRSDGGLLVTL AEMAVLSSLGQGGYFGHMII/D SGQYPGKSKTGQSTPDVAAQA RQSWIP
24994	55362	A	25132	602	2563	VVTTLTLVLTAVGSVLLLLFLV MKARMHAFLALMVVSMGAGL FSGMPLDKIAATMEKGMGGTL GFLAVVVALGAMFGEILHETG AVDQIAVKMLKSFGHSRAHYA IGLAGLVCALPLFFEVAIVLLIS VAFSMARHTGTNLVKLVIPLFA GVAAAAAFLVPGPAPMLLASQ MNADFGWMILIGLCAAIPGMII AGPLWGNFISRYVELHIPDDISE PHLGEGKMPSFGFSLSLILLPLV LVGLKTIAARFVPEGSTAYEWF EFIGHPFTAILVACLVAIYGLAM RQGMPKDKVMEICGHALQPA GIILLVIGAGGVFKQVLVDSGV GPALGEALTGMGLPIAITCFVL AAAVRIIQGSATVACLTAVGLV MPVIEQLNYSKRRGFTGRVEEN FGVCKGPSKYHSQHDAINRQG REASDAHGTLENLPLPLVPQPN AATALAALRASGLEVSENAIRD GIASAILPGRFQIVSESPRVIFDV AHNPHAAEYLTGRMKALPKNG RVLAVIGMLHDKDIAGTLAWL KSVVDDWYCAPLEGPRGATAE QLLEHLGNGKSFDSVAQAWDA AMADAKAEDTVLVCGSFHTVA HVMEVIDARRSGGKLCQMHVN VQDKIDEEINQVHICLCLVLVIV SGCKYVGYSLKCSEHYYSLVR

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24995	55363	A	25133	518	1079	TQKETNKRCSPLVGWYPAFRM AHFLASERSCYQKLSN\RKSH\P AVAGMVSGMTVANLL/EHSAG NVFKSGI*LALHLFIDRCF*YCG DGIGLFLGARYSRRGERKSART ISLFAQPGPVVNFRRHDVWQRR CVCLVQLRKAIHDVYFRFFGNG DDLYYDVSWARDGAGKYAKW QDFRTLFTTAHCSSD
24996	55364	A	25134	322	798	AQRAHVVGTVGKFDEDDADIL HHRHNHLAKVFGLRLFLIAELE FIKFRHPLYQLGDAFTKKLFHIL ILVVGGSIFNHVMQQRRHQRFI VEFHLGQNAGN\ATGCVI*GSPL ERVCPS*ASRATRYACRRRLIW SIARPAAKVSACCSAIATSK*RS KGQRVLLGNCHVEVAIREFT
24997	55365	A	25135	440	906	CGFSSLSRLPHSSYSAHHAVAPS VLMSASGRPRWSQWYRWIFRA GVYTGSIWFFICSTVRPHDASQ RRLSSLT/QVSQDFTFQPVNHQL WAGGKPTAGITVGKQ*W*PFIK FTVPGDDSGDGRGQGFLQIAAG KCRAQTFFSFCRAGKHDPCRRT VS
24998	55366	A	25136	1059	1541	TAPLLRPGCRLS*SAAHPAAPA QSTNQCPGDRYAATLPAHHRH TNHG*IADVHQHISATPASAAS YAPGFLKDGAPASERHRETGC GRDRPH*PSLYKLSGILRPYQPA SFPG*QQRAVLSAR*LLPVQCSL HSQRCRRRPHRLHRSAPAPGIR ERRSRR

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24999	55367	A	25137	236	2211	QGALMSEDIFDAIIVGAGLAGS VAALVLAREGAQVLVIERGNS AGAKNVTGGRLYAHSLEHIIPG FADSAPVERLITHEKLAFMTEK SAMTMDYCNGDETSPSQRSYS VLRSKFDAWLMEQAEEAGAQL ITGIRVDNLVQRDGKVVGVEA DGDVIEAKTVILADGVNSILAE KLGMAKRVKPTDVAVGVKELI ELPKSVIEDRFQLQGNQGAACL FAGSPTDGLMGGGFLYTNENT LSLGLVCGLHHLHDAKKSVPQ MLEDFKQHPAVAPLIAGGKLV EYSAHVVPEAGINMLPELVGDL HERSLIFVASGPAGNSKETASD KLEEALPTKNWEVPGANWNTP GNGIPSVPEKLKGMLSAPNYRR MVLPAPLQILLLQNAKGGELLG AAGGQIAFNLGSAVGAYCGGM MLTLGLAYNYVALPAALLSFA AMSSLLLYGRYKRQQAADTPV LAKPLGQLDNAPFRCENVNLIR EEIGFNALDKFKRTTGALLQLQ QALHPALGADLCGSTGFAVLFI SPVRGNTHLRHLVHIFGTDLDL NRHSVRADHRGVQRLIAVRFW NGDIVFHAARTRLVQAVHLAQ HAITGVRIIDDHAESVDVHDRV KTLLFEHHFAVNRIKMLLPTTD AARYSRFLQTPFDFRKNLLDHL
25000	55368	A	25138	1	1932	

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25001	55369	A	25139	1	1200	MAIPAFGLGTFRLKDDVVISSVI TALELGYRAIDTAQIYDNEAAV GQAIAESGVPRHELYITTKIWIE NLSKDKLIPSLKESLQKLRTDY VDLTLIHWPSPNDEVSVEEFMQ ALLEAKKQGLTREIGISNFTIPL MEKAIAAVGAENIATNQIELSP YLQNRKVVAWAKQHGIHITSY MTLAYGKALKDEGIARIAAKH NATPAQVILAWAMGGGPVE\W RR*QIWRGFSSAS*RHELYITTK IWIENLSKDKLIPSLKESLQKLR TDYVDLTLIHWPSPNDEVSVEE FMQALLEAKKQGLTREIGISNF TIPLMEKAIAAVGAENIATNQIE LSPYLQNRKVVAWAKQHGIHI TSYMTLAYGKALKDEGIARIAA KHNATPAQVILAWAMGGGPVE MAKVADMAGIFVSKLKTFNAG VKGSTLGASGPQYVMVPKKHA DQLRESLASGEIAAVQSTLVAD NTPLNSRVYTVRSGDTLSSIASR LGVSTKDLQQWNKLRGSKLKP GQSLTIGAGSSAQRLANNSDSIT YRVRKGDSLSSIAKRHGVNIKD VMRWNSDTANLQPGDKLTLFV KNNNMPDS
25002	55370	A	25140	2237	2404	
25003	55371	A	25141	307	642	
25004	55372	A	25142	1449	2084	NAPRCAYYVDVIAVTMPTTCC TLKISPLCRELILTLANRTTTQR AEPMTRRLIQVLFDELPQQPQQ QLHLPVSSHPKIRTMVEMMAK GPVEWGALGQWAGFFAMSER NLARLIVKETGLSFRQWRQQLQ LIMALQGLVKGDTVQKVAHTL GYDSTTA\FITMLRKPGKTAGTS LYHRRYGVSLLSSAWGQVGPP RYCRQANSVLSDRFCVLI
25005	55373	A	25143	981	1103	
25006	55374	A	25144	222	379	
25007	55375	A	25145	1	1452	
25008	55376	A	25146	500	854	
25009	55377	A	25147	1	1374	
25010	55378	A	25148	2	167	
25011	55379	A	25149	781	1047	
25012	55380	A	25150	1	783	

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25013	55381	A	25151	442	857	LVKNPVKRMEIQQKNLTLFEYL DWWDVLFLLLESELLFANTWL AATSESVDDCSGVKPPSGKNGT *AMPSWAKASIIASSARCAMLY SFCTQTISAILRASATCVGVTLL RPICFTRPCCCISASTVRLASIDP SAGP
25014	55382	A	25152	3	4105	
25015	55383	A	25153	2	269	YKNPYIAAKIQPKTHDTLTPINP GRIKLWLMTKRPMWVVPERSN *IAARSLG*VGRM**P*QAGAE ATMYAGSTPIASATGTIAASAA A
25016	55384	A	25154	1	1370	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIIILTKTNPASISK NEVFRSGMIAIVAVYGIAWMA ETMFAPACYGYYILPTYPSDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPFQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVALPATVAG VNFTFSNVPLDSSVLSSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGKAALVMGC V\GVTEGAIPFAAADPLRVIPSI MVGSVGGAVTAALVGAQCYA GWGGLIVLPVVEGKLGYIAAV AVGAVVTAVCVNVLKSLARKN GSSTDEKEDDLDLDFEIN
25017	55385	A	25155	1	789	MKIIAGITPADSGTLEIEGNNYV RLTPVHAHQLGIYLVPQEPLLFP SLSIKENILFGLAKKQLSMQKM KNLLAALGCQFDLHSLAGSLD VADRQMVEILRGLMRDSRILIL DEPTASLTPAETERLFSRLQELL ATGVGIVFISHKLPEIRQIADRIS VMRDGTIALSGKTSELSTDDIIQ AITPAVREKSLSASQKLWLELP GNRPQHAAGTPVLTLENLTGE GFRNVSLTLNAGEILGLAG/TEL AETLYGLRTLRGGRIML
25018	55386	A	25156	1	1332	

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25019	55387	A	25157	1594	2220	MWVNPERGRAENTIIGGNATGI GTLNVQDQDSVITVRRLS*SAL KPGILVFKLTPAETERLFSRLQE LLATGVGIVFISHKLPEIRQIAD RISVMRDGTIAGTGFGDDFGFT HPLRQQRLPQHLVSFMRAAVQ QIFTLEIQRGVRPGCNVLAFGQ RGWTPGIVFQQVVELSLKFRIFL RTDKSFFQLAQSRHQDLWHVH AAKLTKIGVK
25020	55388	A	25158	14	237	KTTSFPAKLFNACRISLLASAE/ CQSEYFSIFSNMDLADTVMFL* GAIRFSDLVNEQIQHTFLIPGETI CRLSEVV
25021	55389	A	25159	1	1506	
25022	55390	A	25160	158	639	SGC*PGRPSLN/GRLDVLSAWS VSILRLGGMALEGSIAYIVINFC DVKPQRFRGLSVPAASITVVLIQ QFVLHRRELRRKLALPAHHLVT FTWGNVSAVDETRQWMVIKPS GVEYDVMTADD\RWWLR*PAV RWWKAAKNPLPIHQRIWRSTV AMPKLAVLC
25023	55391	A	25161	2	2886	SVPTIIFFFLPVLRFWRPGIQQA KKCHLFATGTQSRRNTLRQRT AKGIPQQRMTAKREEISIGILHV TPQQRRECRGDNRFTARFRRTP WRLLGHCVSAAVTGVLPAVAG SPLAYSDTDEFYPVAGGTMSQ HLPLVAAQPGIWMAEKLSELPS AWSVAHYVELTGEVDSPLLAR AVVAGLAQADTLRMRFTEDNG EVWQWVDDALTFELPEIIDLRT NIDPHGTAQALMQADLPQDLR VDSGEPLVFHQTTLGFI
25024	55392	A	25162	1	1659	
25025	55393	B	25163	200	646	
25026	55394	A	25164	1	3197	MPHRQHGPQMTPSHQRTTINR DQREQQPIGTAAPQTRPQSAPY CEPHTRRRTLQPHNRGFRTAKY TSTQARKYHMARPERSNDSDH PVHTRSRWNATQTERHTQHHV SPPSSLRTLRTNCTSHAHHRYH RHAQWHRVGLLDVKPTGVPSN TVFSPPKNALWADRVDTSRGR TTVEQDNHPNGGNVVGTPSDN NFWLETTGGDPNKEYYHHHHY NEDYCRYYPLLIAEPLLFPSLSI KENILFGLAKKQLSMQKMK
25027	55395	B	25165	1	2505	

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25028	55396	A	25166	159	1744	NSRISGLQQRYLMHIMVTQGGL MSLSIVHTRAALGVNAPPITVE VHISKGLPGLTMVGLPETTVKE ARDRV/RSAIINSGYEYPAKKITI NLAPADLPKEGGRYDLPIAIAL LAASEQLTANKLDEYELVGEL ALTGALRGVPGAISSATEAIKSG RKIIVAKDNEDEVGLINGEGCLI ADHLQAVCAFLEGKHALERPK PTDAVSRALQHDLSDVIGQ\EQ GKRVLEITAAAGHNLLLIGPPG TGKTMLASRINGLLPDLSNEEA LESAAILSLVNAESVQKLWRQR PFRSPHHSASLTAMVGGGAIPG PGEISLAHNGVLFLDELPEFERR TLDALREPIESGQIHLSRTRAKI TYPARFQLVAAMNPSPTGHYQ GNHNRCTPEQTLRYLNRLSGPF LDRFDLSLEIPLPPPGILSKTVVP GESSATVKQRVMAARERQFKR QNKLNAWLDSPEIRQFCKLESE DAMWLEGTLIHLGLSIRAWQR LLKVARTIADIDQSDIITPTYCG KADARNSGNVCPSSRALVQR
25029	55397	A	25167	127	503	NRCLLLTLLRCKGRNREEENDA EAESEKLKNKFNRPSGRLSYGD RMFDIGVNLTSSQFAKTVMML *RARLGLR*TTGLELRELLPLIP AEKL*/YETDAPYLLPRDLSAKP STSRYHCVIEARAWFK
25030	55398	A	25168	3	406	

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25031	55399	A	25169	1	1252	MFDIGVNLTSSQFAKDRDDVV ACAFDAGVNGLLITGTNLRESQ QAQKLARQYSSCWSTAGVHSH DSSQWQAATEEAIIELAAQPEV VAIGECGLDFNRNFSTPEEQER AFVAQLRIGADLNMPVFMHCR DAHERFMTLLEPQMVENYETLI FEAHSTDYQTPQSLRQLVIDHF AILKVGPALTFALREALFSLAAI EEELVPAKACSGLRQVLEDVM LDRPEYWQSHYHGDGNARRLA RGYSYSDRVRYYWPDSQIDDA FAHLVRNLADSPIPLPLISQYLP LQYVKVRSGELQPTPRELIINHI QDILAHTTQPVKANKQNKEEH AMPNIVLSRIDERLIHGQVGVQ WVGFAGANLVLVANDEVAED PVQQNLMEMVLAEGIAVRFWT LQKVIDNIHRAADRQKILLVCK T*WKWYWQKGSPYVSGRCKK LSTTFIAPPIDRKSCWFVKHPPIS
25032	55400	A	25170	2	319	YSSVFSLSASASFSSSRFRPLPT* KREKKTPISNRQYIGIANSVCEK TSGGVSNIPTTNAPTSTYGRFLR KSSGEVIPIQHSSTIATGTSKETP NAINSAITKLK
25033	55401	A	25171	1	1011	MIPHPKLEGDRSTQALPPTPVIR VTERRNLNWVGTTIGFVHTGK PLSFVYDMADIIKFDTVVPKAF EIARRNPGEPDREVRLACRDIFR SSKTLAKLIPLIEDVLAAGEIQPP APPEDAQPVAIPLPVSLGDAGH RRRRSGRVSEVSWRSGVMSFR RASGDKPQPKPKVMPEHAECPP AARRGQMMSICPCFALKIDIAD NKFFNGETSPLFSQSQAKLARQ FHQKIAGYRPTPLCALDDLANL FGVKKILVKDESKRFGLNAFK MLGAPEKCHRRKNDF*RRSDRI VLIRL*REFSSHQKGLRDRPAH KAVLGDNQLFSGGTGAPVWPG FAKRAVMF/TPLKNLLSAISIFN AKHGHILIIWPRLAAGGHSACS GITFGFGCGLSPLARRKLMTPE RQLTSDTRPDRLLRWPASPSET GSGMATGCASSGGAGGCISPA ASTSSISGINLANVLLLRKISLH AKRTSRSGSPGLRRAISKAFGTT VSNLMMSAIS
25034	55402	A	25172	1	510	
25035	55403	B	25173	1	1482	

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25036	55404	A	25174	704	1069	RLWQADCKENAG\GDYYWTFF PQPTFVSTQKYYCHVDNSCYM NFDFSAPEYHAHWRYGLLMVG ESQHGLGANAIQASQCFKAAN QPLGADATFLQQIKGEIICFGLFI TGVFSIDSAFCDIT
25037	55405	A	25175	1	639	MARVWLCDFIPYGYLPTLNAM PESTRKQIMPWTRLSGSLHTWN RTPNRRIGRYPSGLPPDSANRPR REPDACRSLHSPAKYRGNPNRD RLDHQQNGLPARGKDTPRSNK PSISQWTNTKPQPRHQPRGKKG HKSPAPEMPKPPQATSSTREQT KYGAAELWRSPWKTRYIELKA RGPMACVTISLNVCCAHLVRL VMVTLKQTDPIRNLGEMPSKSQ TKKAREVHLHSLHLQELAQEQ EPPARKRKTQWAVSERK
25038	55406	A	25176	82	356	AQCEEYRVPQTLKRNPKQCFDI SIRGGSQPCGIFSTPVRNTLQNM GQMGWLVAPG*WLWREIRKH NRWCACPRKPGRAGISMALRW GSGHA

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25039	55407	A	25177	1	2635	MNKSGKYLVWTVLSIMGAFAL GYIALNRGEQINALWIVVASVC IYLIAYRFYGLYIAKNVLAVDP TRMTPAVRHNDGLDYVPTDKK VLFGHHFAAIAGAGPLVGPVLA AQMGYLPGMIWLLAGVVLAG AVQDFMVLFVSTRRDGRSLGE LVKEEMGPTAGVIALVACFMI MVIILAVLAMIVVKALTHSPWG TYTVAFTIPLALFMGIYLRYLRP GRIGEVSVIGLVFLIFAIISGGWV AESPTWAPYFDFTGVQLTWML RLINRSIMMDFSLTEEQELLLAS IRELITTNFPEEYFRTCDQNGTY PREFMRALADNGISMLGVPEEF GGIPADYVTQMLALMEVSKCG APAFLITNGQCIHSMRRFGSAE QLRKTAESTLETGDPAYALALT EPGAGSDNNSATTTYTRKNGK VYINGQKTFITGAKEYPYMLVL ARDPQPKDPKKAFTLWWVDSS KPGIKINPLHKIGWHMLSTCEV YLDNV*TSVWRTCACPALRRA TQRYRRQSRAGNLRTSGEAIRR DMEWTSLRSE\DWEKGDTIKQC ISAATSCVYGVTGEGILEGGDA QILREPLPGTKLGLLNWPVFDA LESRSTRERDGKPGGEICGETA NILIRGPENRPLRRDPPGKP

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25040	55408	A	25178	216	1829	TVCRCHFVTTKHIGRERNQRAR QCLVGKTTDTQQHNCDIRVGE QADHTRANHQHCTQRYDHLTG NDQVHTKPTLEQRRQVTTEDT TEVSKQHRHPGEHRDLFQRTLN ISADDQRRLLLELQNDNLNIHNR IWLRLAAQPEDHIYGCGEQFSY FDLRGKPFPLWTSEQGVGRNK QTYVTWQADCKENAGGDYYW TFFPQPTFVSTQKYYCHVDNSC YMNFDFSAPEYHELALWEDKA TLRFECADTYISLLEKLTALLGR QPELPDWIYDGVTLGIQGGTEV CQKKLDTMRNAGVKVNGIWA QDWSGIRMTSFGKRVMWNWK WNSENYPQLDSRIKQWNQEGV QFLAYINPYVASDKDLCEEAAQ HGYLAKDASGGDYLVEFGEFY GGVVDLTNPEAYAWFKEVIKK NMIELGCGGWMADFGEYLPTD TYLHNGVSAEIMHNAWPALW AKCNYEALEETGKLGEILFFMR AGST/GDIGGVTTLFEMKRSKE LVLRWCDFSAFTPMMRTHEGN RPGEHWAF/DGDAKHRHLAVY
25041	55409	A	25179	277	488	
25042	55410	B	25180	260	1500	
25043	55411	A	25181	1	764	MQEWGRYTILSGCCNSALKGD VCLLYGFRVAGRRQASE*TPGA YNRVPSSKK*GFQLVLLPFSAN GKSPAY*RFSKSFAEDGEKDAG FPHPYAEAGYDNGGRRSGAGT LLSR*I*TGAGRGAWRV*RLTG E*MAGKRT*VTASGYSQR*IMV FLWSLYRSYRL/GRVRQHNGPR YLPVLARNWKMSAWVAAAW QGLTDMKRKTMKIRSGS\IVILA SGYAATAA*PLSGDRIFLP*PGK TG*RHGGTPSCAGFTGDY
25044	55412	B	25182	1	3117	
25045	55413	B	25183	270	388	
25046	55414	A	25184	2154	2279	
25047	55415	A	25185	614	623	RPNSGAR*GRGDKRSTQSVPET VRLLFCAGTFDQQPGNARWDD QYRCIRSGIVGVRAVLLGGDIL DTQPLPVELAETLGKSAE

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25048	55416	A	25186	1208	2813	CYGVAWPFDPTLKFEFWRYFT HALMHFSLMHILFNLLWWWY LGGAVEKRLGSGKLIVITLISAL LSGYVQQKFSGPWFGGLSGVV YALMGYVWLRGERDPQSGIYL RRGVIIFAPIWIVRRWFEMTPTQ WSNYFFENLFKYEWVQTRSPA GAIQFEAVDAPEIIPDPFDPSKK RKPTMLVTDLTLRFDPEFEKISR RFLNDPQAFNEAFARAWFKLT HRDMGPKSRYIGPEVPKEDLIW QDPLPQPIYNPTEQDII\DLKFAI ADSGLSVSELVSVAWASASTFR GGDKRGGANGARLAL\MPQTR TGDVTRRQPIRAL\PVLE\KIQKE SGKASLADIIVLP\GLFVVEKSA SAAGLSIHVPFAPGRVDARQDQ \TAIGMFELLEPIADGFRNYRAR LDVSTTESLLIDKAQQLTLTAPE MTALVGGMRVLGANFDGSKN GVFTDRVGVLSNDFFVNLLDM RYEWKATDESKELFEGRDRET GEVKFTASRADLVFGSNSVLRA VAEVYASSDAHEKFVKDFVAA WVKVMNLDRFDLL
25049	55417	A	25187	1520	1960	PVPLNFGWQRSTEVLICHVNSP STAAMTISPWRR**RRRTKQLS APLLLGVSAIGW/LTIILVAFMA WLLAKT/AFGRSFYATGDNLQG AR/QLGVRTEAIRIVAFSLNAER DFDDLRDSGPLIAMILFIMPTLS SISSRRLNPGVPSEI
25050	55418	A	25188	1155	1778	SASGGVMLKFIQNNREITALLA VVLLFVLPGFLDRQYLSVQTLT MVYSSAQILILLAMGATLVMLT RNIDVSVGSITGMCAVLLGMLL NAGYSLPVACVATLLLGLLAGF FNGVLVAWLK/IPAIVATLGT\L YRGLMSLWTGGHWFEGYPRIE KPSPPVAGVHHWCVTQIGGLRP AVAKRVGPDLPGDNKGAKGVL NTLDNYGVDGKCV

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25051	55419	A	25189	1	2227	MVTIAGIILGGLALVGLITYFGK WTYLWKEWLTSVDHKRLGIM YIIVAIVMLLRGFADAIMMRSQ QALASAGEAGFLPPHHYDQIFT AHGVIMIFFVAMPFVIGLMNLV VPLQIGARDVAFPFLNNLSFWF TVVGVILVNVSLGVGEFAQTG WLAYPPLSGIEYSPGVGVDYWI WSLQLSGIAVAHIAAQNVAVLL ISSDLEEIELMADRVYVMHQGE ITHSALTERDINVETIMRVAFGD SQRGVMLKFIQNNREITALLAV VLLFVLPGFLDRQYLSVQTLTM VYSSAQILILLAMGATLVMLTR NIDVSVGSITGMCAVLLGMLLN AGYSLPVACVATLLLGLLAGFF NGVLVAWLKIPAIV\ATLGTLG\ LYRSIMLLWTGGQWIEGLPAEL KQLSAPLLLGVSAIGWLTIILVA FMAWLLAKTAFGRSFYATGDN LQGARQLGVRTEAIRIVAFSLN GCMAALAGIVFASQIGFIPNQT GTGLEMKAIAACVLGGISLLGG SGAIIGAVLGAWFLTQIDSVLV LLRIPAWWNDFIAGLVLLAVLV FDGRLRCALERNLRRQKYARF MTPPPSVKPASSATSDFICIGIVA LPLTMVIVSGGIDISFGSTIGLCA IALGVLFQSGVPMPLAILLTLLL GALCGLINAGLIIYTKVNPLVIT LGTLYLFAGSALMLSEEQKNTK KTRQREDKKKEKKKQRKREEK
25052	55420	A	25190	1055	1206	SFALFSSSSPRSRP*FASTKS*TL TTGQVLPSTNVRFLTGNWGPPV VATG
25053	55421	B	25191	1	1386	
25054	55422	A	25192	1	449	MQDPLLALLEDYNKGDLEKQV PPAQSGPQPGKAGRDRPIVIML DPGHGGEDSGAVGKYKTREKD VVLQIARRLRSLIEKEGNMKVY MTRNEDIFIPLQVRV/AKAQKQ RADLFVSIHADAFTSRQPSGSSV FALSTKGGMCSYRGSGCLQ
25055	55423	A	25193	1536	1941	STSNQNSTALCRRRGLVHCIDG ANDDDSVMVWPSGSGRPWSAE PGAPQR\YAQLVVEDVELDLLH FIVFGDDVMLNVVLQGQAFML ALGLVTNVGVLAHAHHHALVS GVPNDGGGTWVGGRCVQQSQ LCTCWSHCQ

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25056	55424	A	25194	240	855	SRAGYAPAAAQKVASPYVRRE R*NQSD\PAVLTGIGERGK*LLS RDFFIAPLAGMIVEKRGAVHLA RWSVPVERKGQWQPAGLWAQ FFLADIVCPAATALPDTTAEDQ HIDHPAVVHVHVIPVVNTCAED NHRAPMRFMGGIGKFTGDGFNI LARHPGNLLTPGWGVRFDFSVI FRTVFIFQPAIEAVIRQYQIINAD HRTGVAID
25057	55425	A	25195	840	1157	QYAPTAQPARPADPFALPTVQA RLTPFCYLVAKGDWCVYRRSY SLWHSVASPRVRQSPRLGY*GY TANSPGILLAPLSLRGEMFLPQD APKSVPPYKRGKSVAIN
25058	55426	A	25196	1076	1339	LVCVASMPVFISTDASASSGVI VISSAMSGSWSAETKRRLAMV* PEPLHLWAISIPTTSGRFTSSLIS PFPAR*YSPARYIPRVWRV
25059	55427	A	25197	2	118	
25060	55428	A	25198	1809	3145	ARHKQHAYGYRYRQSPRCYGV SGKKRGLRYYGSWLAISGSSRI TR/LLCMYLRRFFIGVIGADIAN MGISAGAMWLLSVSQVSLAAV SQVVAVRVWPASSYTRVTVES NRQLKYKQFALSNPERVVVDIE DVNLNSVLKGMAAQIRADDPFI KSARVGQFDPQTVRMVFELKP NVKPQLFALAPVAGFKERLVM DLYPANAQDMQDPLLALLEDY NKGDLEKQVPPAQSGPQPGKA GRDRPIVIMLDPGHGGEDSGAV GKYKTREKDVVLQIARRLRSLI EKEGNMKVYMTRNEDIFIPLQV RVAKAQKQRADLFVSIHADAF TSRQPSGSSVFALSIQRGARPVG DRYVDHTMFDMVQSLTIADSL KFGKAVLNKLGKINKLHKNQV EQAGFAVLKAPDIPSILVETAFI SNVEEERPNGQPGHPLDPATTM GTLIDCAHADSVQ
25061	55429	A	25199	1	277	
25062	55430	A	25200	902	1006	
25063	55431	A	25201	2	1265	
25064	55432	A	25202	409	525	
25065	55433	A	25203	91	431	NHKPGNIDVARRIQRGFAGDQI GHLRPVERQCSPDKRRFIAADG REIRGKQRAGHIFQLLSRCLLQI LNHCQRRAAHFRFQLSNQRHQ QLLPV/IIYHAAEREYPAGACLV RWLL

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25066	55434	A	25204	3	71	
25067	55435	A	25205	1	1212	
25068	55436	A	25206	1	2786	MAAVIEQIRRAVLALVTGVVHP GDIPVVWDIVWNATAAFIAVIII SLLLDESGFFEWAALHVLRWG YGPGRLPFNRIGLIRRITRRIRQR LLFGLVTFILLLNRSQNPAQDIQ LLAFRARTGKQTAQFIHHLPRM VFTDKTGSSNGLAPQGQCSAQ GELILNEKLAKQLVTAANWVK MQSDEGEINPVDILRWPGVMA AQEQDLDAIAAEILAALDGTLD DFIVARETEGQSGLKRVYHSPG APDIREFTRDAIP
25069	55437	A	25207	5	402	EIFSVVWIIMTRGDVVTISRWR VSSSPLETWNKRWAKISPAPFS LLPISRLEKSEGDWLPETVISAF NMPSSLSLIISSL*FKVRDV*HFF /RI*TLRGHYRVINWPNFNIVVS QGIGKRLANSWLVFTLFHRI
25070	55438	A	25208	48	219	PETCGHLWAYVWPSCAAV\GL YFKVHVLG*RSVTPVTDIVKLL EFTRLRLPGYTKSIE
25071	55439	A	25209	1	912	

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25072	55440	A	25210	1	1857	MRVCARACVRTRTRMCVYAH TCVCVRTYAYVRVRVRVHVRA RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALEHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLLAFLCSTSPGF GDPDGLGVIAYQDTVRPNAAT AISELNALAVKGVILTGDNPRA AAAIAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMGSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTLDDRVVAGSAGRYGGDGA GDSECVKIVAQEIRQTDRNIER DRSPRPSGERVRVRGKGGIEAN QPLSTAFTNQITIRQSIRLFSNQF VFHKGISRVVAGSSAIISNVSPG CILRTPNCRRGFPISCTGEGKAA YGWQRDGGHAEYLLAEEKDLI LLPDALSYEDGAFISCGVGTAY EGILRGEVSGSDNVLVVGLGPV GMMAMMLAKGRGAKRIIGVD MLPERLAMAKQLGVMDHGY*I LPDVY/V*IGVARVSWMNGRID SELRTRVRAYAHTRTRARTCTR TRTRTYAYVRTHTHVCAYTHM RVRVRTHARAHTR
25073	55441	A	25211	3	1180	SKLGTRRSVVWA*SPSTSPTLW CSTFSAAGHSSMKRMNEFVDL LPAQQRMKGENWYRGTADAV TQNLDIIRRYKAEYVVILAGDHI YKQDYSRMLIDHVEKGARCTV ACMPVPIEEASAFGVMAVDEN DKIIEFVEKPANPPSMPNDPSKS LASMGIYVFDADYLYELLEEDD RDENSSHDFGKDLIPKITEAGLA YAHPFPLSCVQSDPDAEPYLAR CGYAGNFMESEPRSGLIRVSCM PAGPPLPLPAARSEAPKAAGTV ASVPSIAPARLRPVPDPVELVLV AAEFITPGDPTPRLHGSGFIDIR QIHHQTRSHLEGVKTGIRFLNH FSGNPQGGIAHVNGVARFQVK QCHQAWGQQYAARLRFQARGI SLQIAIHRVDIIHRFDVRQL
25074	55442	A	25212	16	543	
25075	55443	A	25213	1	3387	

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25076	55444	A	25214	1688	2234	LSVGKTFPVLVPAAFRKVSATG AAVPGTPSILALPSYSTTPFGVC TSASMNVPVLTLRIRTRVTGEV AAIKPFSMANAPTPDSILPQLGV VSTRCS*TITCANR*STSARGSL ERLIMATLL/WVAGTFD*SVWF GHDTDVVTLYRFHEALCYSVT LRTPHRRVLRFKSQHPGELACFI SPVA
25077	55445	A	25215	905	4761	PPHNWMPSNATPGIAFVWCAY GAI/LPGDAPVPVVDDYRKVVR KDTKGLIARWKYFWMSVIALG VAFALYLAGKDTPATQLVVPFF KDVMPQLGLFYILLAYFVIVGT GNAVNLTDGLDGLAIMPTVFV AGGFALVAWATGNMNFASYL HIPYLRHAGELVIVCTAIVGAG LGFLWFNTYPAQVFMGDVGSL ALGGALGIIAVLLRQEFLLVIM GGVFVVETLSVILQVGSFKLRG QRIFRMAPIHHHYELKGWP
25078	55446	A	25216	269	1219	QTRTRRVQLQDLIEYVAIHQW/ FSDKHPVPFYSCIFDDSITNCYS WSISKDGYFIFGGAYPMKDGQT RFLTMKDKMSAFQFQFGKTVK SEKCTVLFPSRGQDFVCGKDNA FLIGEAAGFISASSLEGIIYALYS TDIPRSVLLKQPDKLNPAYWRA TRLVCITLFGQIVNTICMAAPDL RKWIMLSPVAHKGHHLEWVLH DMQILPVPRPSGCICSGSSTFFC NWGCPYDRPQWQLYPSMCLC VHIGPAPVRSEKVESKRAISKV DQDSAFRGCCRSGNRNGGRKI VAVSLKKVSGAAKPCGHFRST RYRVAYSTIIN
25079	55447	A	25217	1	1158	
25080	55448	A	25218	1156	1899	LKLGIRYPQCQRLVTHSLDGISL PLHTAH*SQSNSAENTHRAISLK AVPPFFTAERRGVNAEEHRNGR LINGECRQRFNVLRVANGVRN VQFAKARDRNDIASFRQIGFDT FQTEVAQHFTDFRVAGFAFAID DSDLLVRLHFTALDAANADNA NIAVVIELRNLHLERTVKVNVR RRNVVNNRLVQRGHVFRHIFV VQTRDTVQRRSVNDREVQLLV GRVEVNEQIEYYADAFVIMLER LCKVLCCR
25081	55449	A	25219	1	2583	

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25082	55450	A	25220	278	787	TLLSATRQVVALLSTKPAFFSS HSSFSTSSRLISSRAASSMDVAF PIAFSASKTVSIKFFSR*KLLRNS HRPPFMVMRSIIRSPSNVFMAS* FRFVSIPTLRIDAVRRSTIWCSTT ARFSSRADAKFIKNVFQQAIPDS AAKWFFPVPGFPLNAKFVHPVI SSSAMDFA
25083	55451	A	25221	866	1144	
25084	55452	A	25222	19	1203	NWNLTPYASLTGFTADNPEYH LSNGMKSKSVDTRSIYRELGAT LSYNMRLGNGMEVEPWLKAA VRKEFVDDNRVKVNSDGNFVN YLSGRRGIYQAGKDLDRFKNL VLVHAARYAADLSYLPLMQEL EKRYEGKLRIQTVVSRETAAGS LTGRIPALIESGELESTIGLPMN KETSHVMLCGNPQMTRRLIPAS VEVYHDSLCIRKIWHGWEQHIT ARYLVGADGANSMVRRHLYP DHQIRKYVAIQQWFAEKHPVPF YSCIFDNSITNCYSWSISKDGYF IFCGAYPMKDGQTRFTTLKEK MSAFQFQFGKTVKSEKCTVLFP SRWQDFVCGKDNAFLIGEAAG FISASSLEGISYALDSTDILRSAL RKPIRTEQGANGAIRELEKFRPA
25085	55453	B	25223	58	359	
25086	55454	A	25224	4	329	
25087	55455	A	25225	1	1008	
25088	55456	A	25226	1	1335	

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25089	55457	A	25227	3	1886	HRLNITAENDCRRLHCSLRDLS SLLQAVGRLAEYFIGDVFAARF NDALTVVERLVKVTLYGSQIKL YNIETAVPSVLKPDLIDVHAQS LAGGCRLSAHWLAQYCSEIHR QNTQQFVTLISTTMDAITPLIST KVQDKLLLSACHLLVSLATTVR PVFLISIPAVQKVFNRITDASAL RLVDKAQVLVCRALSNILLLPW PNLPENEQQWPVRSINHASLISA LSRDYRNLK\PSAGAPQRKMPL DDTKLIIHQTLQRLRKILWENIS G\ESTKSSTDFAYQFGCRESV\Q VSLGLFPAF\IHQSDVTDEMLSF FLTLFRGLRVQMGVPFTEQIIQT FLNMFTREQLAESILHEGSTGC RVVEKFLKILQVVVQEPGQVFK PFLPSIIALCMEQVYPIIAERPSP DVKAELFELLFRTLHHNWRYFF KSTVLASVQRGIA\EEQMENEP QFSAIMQAFGQSFLQPDIHLFK QNLF\YL\ETLNTKQKL\YHKK\I FR\TAM\LFQFVNVLLQ\VL\VH KSHDLL\QE\EIGHRHSYNMASV DF\DGFFAAFLPEFL\TSC\DGV\ DANQKSVLGRNF\KMDRLCPCL PGPAPHSPRMCTGWSTTCGLLT DSGNDSLAPWGLWKLLGPCLL PGGTRDFLLVAT

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25090	55458	A	25228	689	3053	VDCRMS/FSYIEKFTDFLRLFVS VHLRRIESYSQFPVVEFLTLLFK YTFHQPTHEGYFSCLDIWTLFL DYLTSKIKSRLGDKEAVLNRYE DALVLLLTEVLNR\QFRYNQAQ \LEEL\DDETLDDDQQTEWQRY LRHSLEVVAKVMELLPTHAFST LFPVLQDNL\EVYLGLQQFIVTS GSGHRLNITAENDCRRLHCSLR DLSSLLQAVGRLAEYFIGDVFA AR\FNDALTVVERLVKVTLYGS QIKLYNIETAVPSVLKPDLIDVH AQSLAALQAYSHWLAQYCSEV HRQNTQQFVTLISTTMDAITPLI STKVQDKLLLSACHLLVSLATT VRPVFLISIPAVQKVFNRITDAS ALRLVDKAQVLVCRALSNILLL PWPNLPENEQQWPVRSINHASL ISALSRDYRNLKPSAVAPQRKM PLDDTKLIIHQTLSVLEDIVENIS GESTKSRQICYQSLQESVQVSL ALFPAFIHQSDVTDEMLSFFLTL FRGLRVQMGVPFTEQIIQTFLN MFTREQLAESILHEGSTGCRVV EKFLKILQVVVQEPGQVFKPFL PSIIALCMEQVYPIIAERPSPDVK AELFELLFRTLHHNWRYFFKST VLASVQRGIAEEQMENEPQFSA IMQAFGQSFLQPDIHLFKQNLF YLETLNTKQKLYHKKIFRTAML FQFVNVLLQVLVHKSHDLLQE EIGIAIYNMASVDFDGFFAAFLP
25091	55459	A	25229	1	853	MISVANEIAEAGFDPQGRTSED LLDLAESRVFKIAESRANKDEG PKNIADVLDATVARIEQLFQQP HDGVTGVNTGYDDLNKKTAG LQPSDLIIVAARPSMGKTTFAM TLVENAGR\MLQDKP\VLIFSLE MPSEQIMMRSLASLSRVDQTKI RTGQLDDEDWARISGTMGILLE KRNIYIDDSSGLTPTEVRSRARR I\AREHGGIGLIMIDYLPLMRVP ALFDNRTLEIAEISRSLKALAKE LNVPVVALSHLNRSLEQRAEER PGNSDLGESGSIEQDADLIL

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25092	55460	A	25230	206	1073	VKITSWLMSNSALPGTLKLLAL ILKCSTCVRVLPRSELRNLER/Q GQLDSVGGFA/YLAEL/SKNTPS AANISA/YADIVRERAVVREMIS V/ANEIAEAGFDPQGRTS/EDLL DLAESRVFKIAES/RANKDEGR NPMFDDRGKRGEPSDLIIVAAR PS/MGKTTFAMNLVENAAML/Q DKPVLIFSQTKI/RTGQLDDEDW ARISGT/MGILLEKRNIYIDDSSG L/TPTEVRSRARRIAREH/GGIGL IMIDYLQLMRVP/ALSDNRTLEI AEISRSLKHFEKLALICGCRNNG TTRYCKSLLA
25093	55461	B	25231	1	483	
25094	55462	B	25232	287	635	
25095	55463	A	25233	1	2469	MPSDISLASCRLRATSRLFTDHR RQSDCMTAINRIPIVDDEDNVR RFETHCANNVRTALHLFADIHP DVVLMDIRMPEMDGIKALKEM RSHETRTPVILMTAYAEVETAV EALRCGAFDYVIKPFDLDELNLI VQRALQLQSMKKEIRHLHQAL STSWQWGHILTNSPAMMDICK DTAKIALSQASVLISGESGTGKE LIARAIHYNSRRAKGAFIKVNC AALRESLLESELFGHEKGLFER ANEGTLLLDEIGRM/PLVLQAIL RILQEREFERIG/GHQTIK/VDIAS LLAPTRLQAMVKEGTFREDLFY RLNVIHLILPPLRDRREDISLLA NHFLQKFSSENQRDIIDIDPMA MSLLTAWSWPGNIRELSNVIER AVVMNSGPIIFSEDLPPQIRQPV CNAGEVKTAPVGERNLKEEIKR VEKRIIMEVLEQQEGNRTRTAL MLGISRRALMYKLQEYDATGF FRDGMTIMVGGFMGIGTPSRLV EALLESGVRDLTLIANDTAFVD TGIGPLIVNGRVRKVIASHIGTN PETGRRMISGEMDVVLVPQGTL IEQIRCGGAGLGGFLNPTGVGT VVEERQTSIDTSTRKRPFELGRP SRNNDKGIRPRSGAGSEEYPRT LHDSLKRLQTDYLDLYQVHWP LRPFYCFGKLGYSWTDSAPAVS QLDTLDALAEYQRAGKIRYIGV SNETAFGVMRYLHLADKHDLP
25096	55464	A	25234	1	891	
25097	55465	A	25235	1	1614	
25098	55466	A	25236	1	946	

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25099	55467	A	25237	1055	1474	NGVKSKPPPNHQTGSAPGFSAI KNRTFAWPTLPNTSCWANTML IGSRELGIRSSQSGPLLGVRVWC /CRCRGTQG/HSQGKDG/IPENGI RAYKFTSS*ASFRNSACFRQPSR IKPLRKATWLLCGLSTRHLITK RLSSPDWA
25100	55468	A	25238	2036	2743	DLLIRQMPLLSRRVIPVIRVPVT GVLWKSFTPRITIFGH/ALIDQH SMIVAAQGLTPDHQLLLQIYDR ARVSASRIVHQAQIYGDAVVR YAFIEHRAEVFDFASIEGNEENN VWLCDCAKVYGHAQVKAGIEE DAIPTIHYSSQVAEYAIVEGNCV LKHHVLVGGNAVVRGGPILLD EHVVIQGESRITGAVIIENHVEL TDHAVVEAFDGDTVHVRGPKV INGEERITRTPLAGLL
25101	55469	A	25239	2234	2571	IMSSVDSSLVLPLKAMVPSRITL IRSAIWRISG/RLMRDKNNTHAS SKQLLQATKQAFGFRRGKRGG RFIEDQNPRVAHQPAEDFHHLA IGDIQRSCQTMQIKLAAQRRQQ VLH
25102	55470	A	25240	659	1206	WKSTSNTAKAKPGSVMAVDLR IPIRFGVMLSAA/FGDDVVDLIA QVDLVTTAVGPVVLERIAPAIA KGQVKRKEQGHESPLNIIACEN MVRGTTQLKGHVMNALPEDA KAWVEEHVGFVDSAVDRIVPP SASATNDPLEVTVETFSEWIVD KTQFKGALPNIPGMELTDNLM AFVERKLFTLKH
25103	55471	A	25241	332	683	ALPGR*RHVHLPGSAYEWNDA EPAQESDELSLKMLTAICWLTA TA/STSLKI*R*KVALRCLVGRIR RLRRIRQQCQLLMRRSRVLSGR LSSV
25104	55472	A	25242	1	841	MVKVAGECRVRASAHLPGLNR STKNTEDRGANNQEGTNTQKT RGETNERLKKNEHRDLRLARY PAKENNKQGDKNKPRTYEKLT GTVTHQEPPHHADQSPGLCLFR TSRAQVERGPTVLLLISQENQIE RYDSDNHSQLNLCLRVPTVTTQ RRDYDIAERYRQKGIKLPARKE RLMTIAERLRQEGHQIGWQEG KLEGLHEQAIKIALRMLEQGFD RDQGIA/RRASCQRQQRQSSLPT P/EHCCAISGATARKPAALPAAR IRRILVSIIRCTSGCPALSG

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25105	55473	A	25243	240	651	RCPPQSCLLAEGRWCG*K/CRK VSV*SNRYR*SRLSLGELLRAYS RNRDLPGF/SSGSARVLVATDV AARGLDIKSLELVVNFELAWEP EVNVHRIGRTARAGNSGLAISF CAPEEAQRANITSRPPHPAHIAS DHQSTP
25106	55474	A	25244	1455	1643	RDPHQICVAESVYLAAFVLLCA GLCVRRRSTTGARNAAAAC*N GLW*AEAQCPAYYVCPVVG
25107	55475	A	25245	549	641	
25108	55476	A	25246	1378	2084	PNFGYSPPASSCGQVSQNSS*LQ CSVSGRDKMLRTGPCARTVSSS YLMGVSFSRDA**DAR*VCACH NTIAALSASAERFTSCERASHSE ARSGCCNSVRVMSNNPCCPRSL IGVYDILFFQESTAKRCKRSLSG SGSACGKSRVRFTPYRPARRTP LRSTTSPISAASFPSGWECNAAS TCSAALRSTAITSLPSLAKFRAS SPSNSQTPRTAGLTGSAASESSI PQPQAAANS
25109	55477	A	25247	1134	1428	GPCGCCSSNVARCASQTSSRFA AV/WHGAIGAR*LNADNRPLWI EITREHAELPGKTGRRMETKQR RAITFTQRQNGFESHTPGAVFFS INNRCQFGDR
25110	55478	A	25248	96	535	RPQTTVQPALYVAEQSICSQPC* *FSTKCDRKPAAVLAPAGYAAL PVLFSSAKLDGSWLRWNSASG RRQNGSFSCAALASKRPASASS KLNSA**SLPSAVFAAPVRVAA SMIISGFCALASIRPSASTRRPSA SVFITSTFLPLR

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25111	55479	A	25249	1471	3026	SPLRSSVACRGWHRKNNRRGW CPRRGDPARPVRDSLQ\HATAIII VATPGRLLDHLQKGTVSLDAL NTLVMDEADRMLDMGFSDAID DVIRFAPASRQTLLFSATWPEAI AAISGRVQRDPLAIEIDSTDALP PIEQQFYETSSKGKIPLLQRTLV RFANGSARVLVATDVAARGLD IKSLELVVNFELAWDPEVHVHR IGRTARAGNSGLAISFCAPEEAQ RANIISDMLQIKLNWQTPPANS SIATLEAEMATLCIDGGKKAKM RPGDVLGALTGDIGLDGADIGK IAVHPAHVYVAVRQAVAHKA WKQLQGGKIKGKTCRRCYPLA APYVRHCSLVGRAASHQALWH VAGFGLYALFRRTGGCRLRCR YSGGLRLIRPTVAAGICRPDKT RKRRIRHRAPFPDAARAPYPAY RSQYNQFFFTNSDFSFIGPKPSM LQSMLCAPCNQADVFHFGANV SASKSYLFTFRSLMMVTLSPCS QQIAVSIFNDQLVAFLCRFCVV PLRRHIHGQMYMPLSS
25112	55480	A	25250	196	330	
25113	55481	A	25251	62	617	NRRLPSGGDEMSAQVSLELHH RI\SQF\LVQESSCWTDW\KFRD GVAQLRPKEVRF\TMRTTVNGQ TRVPRKGVQPPTTWIFNDTKDQ LERRIARLETGMAWAEEPPSRT RHLISNCQISETDIPNVFAVRVN YLLYRAQK\ERDETFYVGTRFD KVPPSE\DTTWRCLKRDIVLDQ AVITSHNLSVLF
25114	55482	A	25252	1	318	
25115	55483	A	25253	1	510	
25116	55484	A	25254	9	79	
25117	55485	A	25255	1	361	
25118	55486	A	25256	863	1245	FSQIYLARSALSSAHSSRSPWQH SVWTLVRSVTNLETSANSALG NLWLRRATAHALKALSPNFWR LAHLSLCLADEAFPSSRS/IIELW QQAGSFISSLATFCKSSFIPFSKE KEFRGIKVRMSSGNFI
25119	55487	A	25257	909	1069	GILSPFLVFVRFVKDQ\VVDVW YYF*GLCSVPLVDISVLVPVPCC FGYCSLVV
25120	55488	B	25258	1	1878	
25121	55489	A	25259	778	990	
25122	55490	A	25260	312	635	
25123	55491	A	25261	4047	4276	

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25124	55492	A	25262	1599	1776	WFPASSMSQPKKAQDQTDSQP NSTRGTERSWYHSF*NGSKQ*K KSNSSPTHFMRPASS
25125	55493	A	25263	1	162	
25126	55494	A	25264	1	3370	MNRAPIPKQSKDKTSRETKNTS RSKTRERTDELEGLSTDNHAET QHAETNTDMTHERYTQIRNHT YKTTHQMEDKRTKPKREKEIH NRPDDMAKAGIPRSILNTGHPG KLMQTEVHHVRTLKIMLKVYS RALQEELQFSSKAIGRLFPCAD DLLETHSHFLAQTHERSGYVPL CVCATHTKFYEFMEDVNTAYT KRHTMFRSLSMVSECLFSLING DDMFVTFAAMQAQQGRSSLV WLFSQLYLYSFISLFIYMV
25127	55495	B	25265	44	238	
25128	55496	A	25266	1	444	MPAEFITG\ERS\SEGFF\RIHAGI EQAISRGLAYAPYADLKNLDD KTIASFQQQLSDMGYKFQFITL AGIHSMWFNMFDLANAYAQG EGMKHYVEKVQQPEFAAKKD GYTFVSHQQEVGTGYFDKVTTI IQGGTSSVTALTGSTEESQF
25129	55497	A	25267	710	1395	DLPGISSKWVIAVIFGHLIVGIFI PPAIIVRAGIT*RQVR/WIAAHE GKAPQQIIIMAHLDTYAPLSDA DADANLGGLTLQGMDDNAAG LGVTLQLAERLKNTPTEYGIRF VATSGEEEGKLGAENLLKRMS DTEKKNTLLVINLDNLIVGDKL YFNSGVQTLEARHQRSFNTVKP WPDSVISNRPFAGNTGSVDDND EIQRNLNDTNYNRMWEYNNRG VGSKVVAEAKK
25130	55498	A	25268	2	2105	
25131	55499	A	25269	754	1133	RAANQHQTVDLTRLQTRIAQR LFNRHSQAIEQRQPQIFQFVLVK FAFPRFFLILPANVQWRLIATFC RFHTGVQGCQFTLVKRGPGDIR DYQQTNLDWYNSRNTTKLDES VNRV/HAAIQS*RQNGL
25132	55500	B	25270	1	1275	
25133	55501	C	25271	1	1167	

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25134	55502	A	25272	275	2424	SPAMHFQSFT/WQNNLDDNTIA SFQQHLSDMGYKFQFITLAGIH SMWFNMFDLANAYAQGEGMK HYVEKVQQPEFAAAKDGYTFV SHQQEVGTGVYAASGNSLLLM RALNAAWPGIIDCSNHFARLRC SVWSIPRSDLRCAAAFRTGRLA CCPAGDEKPYPSLRSSRWSGRG ATALHYYTAKRCRPDKTRQRRI RQPARALDVGCGVTALSDLPG CRTSQRCRPDKTRQRRIRQPAR ALDVGCGVTALSDLRGAALHG SLANYRVVNFLFRLPDAMILSV LLRSCPFVFPLLRRLRAGAPVGP YCTGTPITPLPSTRLFAPLPNRC SMAGMYGGLQPVPHPAIGARC LMRCLTHLIRPTMGTGSMAEE ALGTSFKRLCAHYSRMRCWRIL SGLRGARPNKIVCRIRRLRRIRPI LRLRFPRHSRVVFIFGGGNPRR AKQRQTGEEVEKCHQPQHGTK CCARGGFAACLVFEYVVVFWT SLPDSFCRKSFPTRIRGSMVPSL WDFPPGVDGRKGKTSWNGVPG PCVTCGLGLTCPESPCCPGLSLG DGYPEKVSVGPPIPLKFQAILQA FHEIFGEGSCHIASVAVESGVPE QPFGSEETRAGARNRVANARR LLPEADFWVAIEAGIDGDSTFS WVVIENASQRGEARSATLPLPA VILEKVREGEALGPVMSRYTGI DEIGRKEGAIGVFTAGKLTRAS
25135	55503	A	25273	1	441	
25136	55504	A	25274	3	2919	AVSNCSEGLSKEWGPRPCRHR GMEKLPLGGKFWPTQ/EAVRT VRARLQAD/VTGVPTVLVARTD ADASDLITSDCDPYDSEFMTGE RTSEGFFRTHAGIEQAISRGLAY APYADLVWCETSTPDLELARRF AQAIHAKYPGKLLAYNCSPSFN WQKNLDDKTIASFQQQLSDMG YKFQFITLAGIHSMWFNMFDLA NAYAQGEGMKHYVEKVQQPE FAAAKDGYTFVSHQQEVGTGY FDKVTTIIQGGTPDKAFT
25137	55505	A	25275	432	549	

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25138	55506	A	25276	652	2689	KFSVGYAVQNFNATVSTKQFQ VFSEQNTSSYFAEPQLDVNYYQ NDVVHFVTTRDDMPEATRVHL EPTINLPLSNNWGSINTEAKLLA THYQQTNLDWYNSRNTTKLDE SVNRVMPQFKVDGRMVFERD MEMLAPGYTQTLEPRAQYLYV PYRDQSDIYNYDSSLLQSDYSG LFRDRTYGGLDRIASANQVTTG VTSRIYDDAAVERFNISVGQIY YFTESRTGDDNITWENDDKTGS LVWAGDTYWRISERWGLRGGI QYDTRLDNVATSNSSIEYRRDE DRLVQLNYRYASPEYIQATLPN VNHHITMEHLHMKTRTQQIEEL QKEWTQPRWEGITVRPYSAEDV VKLRGSVNPECTLAQLGAAKM WRLLHGESKKGYINSLGALTG GQALQQAKAGIEAVYLSGWQV AADANLAASMYPDQSLYPANS VPAVVERINNTFRRADQIQWSA GIEPGDPRYVDYFLPIVADAEA GFGGVLNAFELMKAMIEAGAA AVHFEDQLASVKKMRHMGRT ASDQPWLAYAPYADLVWCEPP PPDLELARRFAQAIHAKYPGKL LAYNCSPSFNWQKNLDDKTIAS FQQQLSDMGYKFQFITLAGIHS MWFNMFDLANAYAQGEGMK HYVEKVQQPEFAAAKDGYTFV SHQQEVGTGYFDKVTTIIQGGT SSVTALTGSTEESQF

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25139	55507	A	25277	134	1695	FPDPARLPPVSVNHHITMEHLH MKTRTQQIEELQKEWTQPRWE GITRPYSAEDGGKLRGSVNPEC TLAQLGAAKMWRLLHGESKK GYINSLGALTGGQALQQAKAGI EAVYLSGWQVAADANLAASM YPDQSLYPANSVPAVVERINNT FRRADQI/QWSAGIEPGDPRYV DYFLPIVADAEAGFGGVLNAFE LMKAMIEAGAAAVHFEDQLAS VKKCGHMGGKVLVPTQEAIQK LVAARLAADVTGVPTLLVART DADAADLITSDCDPYDSEFITGE RTSEGFFRTHAGIEQAISRGLAY APYADLVWCETSTPDLELARRF AQAIHAKYPGKLLAYNCSPSFN WQKNLDDKTIASFQQQLSDMG YKFQFITLAGIHSMWFNMFDLA KAYAQGEGMKHYVEKVQQPE FAAAKDGYTFVSHQQENRSSK QQQPLLTVGRIRRSRRIRQSVPR TGIGCASRRFNTAKPWADAVIS NRPFAGNTGSVDDNDEIQRNLN DTNYNRMWEYNNRGVGSKVV AEAKK
25140	55508	A	25278	230	380	
25141	55509	A	25279	432	1247	PSQEPSVHGRWMA*KGHSRIV* WRAYD*TH\FNPVLKKSVSLGS NIRHMLAEEATTEELDGT\GPV LV*PNRH*PAYWMRAYLNLKK MSCRSFRRKA*RW*CETQTVV HRDRVDQGNNHFDVVARHYH LYAFLRKERQLIFFKFKYARIQY AG
25142	55510	A	25280	243	430	RRPSYSVLQRLPSAVLLPYY*R DWYHRTAGRRRDGNAGRQHQ NGCYPDPPDRDGRRSAFRNP
25143	55511	A	25281	10	638	SSVPTAGSRYNHLRAPRYSPLF ANYSMSDRCCKPFG/LDSSTG* WFQ*RSVPLPILLPDTSRHQL*C SDPTRNGPA\QACQRFFHIVERV ARVHHARFAATVTVDHVVIDQ RFTQICRT/PWCRLHRHHWRSSS GTR*TF*SPARHFCLLHNDSSYR STARPTCSGTDVPDRRCSDAHL CDHWSGSRAHADTDAECWCL NPQPAPSLLQCRR
25144	55512	A	25282	803	1622	
25145	55513	A	25283	498	686	RRPSYSVLQRLPSAVLLPYY*R DWYHRTAGRRRDGNAGRQHQ NGCYPDPPDRDGRRSAFRNP

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25146	55514	A	25284	1	2063	MKNFMENVLRYLSDDKWKPD AKASMTVGTNLDTVYFKRHGQ VTGNSAAFDFHPDFAGISVEHL SSYGDLDPQEMPLLILNGFEYV TQVGNDPYAIPLRADTSKPKLT QQDVTDLIAYLNKGGSVLIMEN VMSNLKEESASGFVRLLDAAG LSMALNKSVVNNDPQGYPNRV RQQRATGIWVYERYPAVDGAL PYTIDSKTGEVKWKYHVENKP DDKPKLEVASWLEDVDGNRKR NFSNDARANGTAAFTDCETQT VVHRDRVDQGHNHFDLVARH YHLYAFRQFDGTSHVSSTEVEL RTVAFEERSMTAAFISWTECTL QIRTCPQNPTGKVWTCDELEIM ADLCERHGVRVISDEIHMDMV WGEQPHIPWSNVARGDWALLT SGSKSFNIPALTGAYGIIENSSSR DAYLSALKGRDGLSSPSVLALT AHIAAYQQGAPWLDALRIYLK DNLTYIADKMNAAFPELNWQIP QSTYLAWLDLRPLNIDDNALQ KALIIDQEKVAIMPGYTYGEEG RGFVRLNAGCPRSKLEKGVAG LINAIRAKKSATMIDTTLPLTDI HRHLDGNIRPQTILELGRQYNIS LPAQSLETLIPHVQVIANEPDLV SFLTKLDWGVKVLASLDACRR VAFENIEDAARHGLHYVELRFS PGYMAMAHQLPVAGVVEAVID GVREGCRTFGVQAKLIGIM
25147	55515	A	25285	3	371	
25148	55516	A	25286	63	180	
25149	55517	A	25287	2	205	
25150	55518	A	25288	495	707	REFSSHQKGLRDRPAHKAVLG DNQLFSGGTGAPVWPG/HSENV VPVDPTMKRLPDDVNHPALDY YWRLSFA

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25151	55519	A	25289	1	1713	MTWAYSPSYGKPLSVPQGIIGL MTRFGMDVTLAHPEGYDLIPD VVEVAKNNAKASGGSFRQVTS MEEAFKDADIVYPKSWAPYKV MEERTELLRANDHEGVK\APEK HCL\AQNAQHK\DWH\SIEEMM EP\TREGEAQNKHGRP\AEINGA SCKEGRSDQKAYDEKSRPDEM PIDDNVVLNKGDVLQVSGDAR RVKTIADRIGFISIHSQVTDLLAF CAFFVIGLMIGMITFQFSTFSFG MGNAAGLLFAGIMLGFMRANH PTFGYIPQGALSMVKEFGLMVF MAGEIQVDGNTIYPHIWKSCDG GVLFAKQYLLRLGIILYGFRLTF SQIADVGISGIIIDVLTLSSTFLL ACFLGQKVFGLDKHTSWLIGA GSSICGAAAVLATEPVVKAEAS KVTVAVATVVIFGTVAIFLYPAI YPLMSQWFSPETFGIYIGSVIEV GVDVPNASLMIIENPERLGLAQ LHQLRGRVGRGAGLLTACCST KRRFLKAAPEVTRTGLADDRSS GLPLQTGYELASMQGLVDVVR LSPQGTDTFAMLDAFRANENG AAPLPLTANSDCNGYWRRLAG
25152	55520	A	25290	629	1054	ASGRFREVTG/MEEAFKDADI/V YPQSWAPYKVMEERTVLLRAN DHEGLKA\LEKQCLAQNAQHK DWHCTEEMMELTRDGEALYM HCWPADISGVSCKEGEVTEGVF EKYRIATYKEASWKPYIIAAMI\ CPVNTPNQVHCSSNC
25153	55521	A	25291	235	780	
25154	55522	A	25292	1	2783	MTYRNNHQTGVAFLFQTKFCIE DGGVKTFDGYRVQTQSRHAEQ EVTDVEINLFCHPLCIIMQIFTV HISEELATFIVRGFRFRRGKAAI GIFLVNNQLQPDIVHRGFCTEH HDVRGIKHFTLVEHVITGSGFG NTRFTFFRAGNNKMPRLGVGA GWAVLQGVPVRFGVWPLPEYP AYACGKFNGAIRAGDAAQLAA YAQAFIQLHGPIDAGDGVNRA DHRAGDFFEIVFQNLFAIADVD LAINHAVNAQLRLRNP

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25155	55523	A	25293	365	722	TSCLSALAIK/QQHLDEKKELG HLSAGARRLILGIIVTF/CADSG VNLRYSAV*PAGAVYLPDAAV GGSADRTADAGALLGANVDCA VADRFLPLYLVALHLYAELGRS GQPGVRAYSALR
25156	55524	A	25294	798	1094	
25157	55525	A	25295	1	2780	MGIVASASVQAAEIYNKDGNK LDVYGKVKAMHYMSDNASKD GDQSYIRFGFKGETQINDQLTG YGRWEAEFAAWTDMFPEFGG DSSAQTDNFMTKRASGLATYR KTISSAYRWPELNLQYHRCTS AARAMLLSGRPVMQINERTAV RRQMTVYLRVERIHEIDPLVSL SHSMSVIPIDVERPIAAAPCTPG LWRTKTPLRVPSTYPLRLPGRA RVVCHRTFRLHLCKDWVFMFS GLLIILVPLIVGYLIPLRQQA
25158	55526	A	25296	66	300	QSTYCDNPPVPVSRGL*P*RRSS STSSAGYQK*RYCQHRHDPASR IRTVQRTDSQRTVKRKFMLLVP EASVPASEIC
25159	55527	A	25297	240	424	RCSRDEHDFQLIANLRIVVITFA TFA*CTA*LPLGNHSVVAAH*A G*GGAPVTAQVFVQHG
25160	55528	A	25298	1	1425	
25161	55529	A	25299	1	471	
25162	55530	A	25300	1269	1390	
25163	55531	A	25301	601	1119	VAAGAV*RGH*NVQLGKLFFV ASDLRINAIAGGVVVFS*FIQGL TNAIGSGFNNARCRKPTGQVA ADGGRDAGFFTIANNQCTYAA GIFFQCSGEFVGIQFQFAIAGIGR DTNLRQRFIAGRTDGITQHRFQ LRLNRPQRGVAEQCTIARTLAIS SRMAVYLVRLLKVSISEL
25164	55532	A	25302	1666	1769	RLKRHPPLRPSWPPY*TGAHVW HFSPLANWKPGI
25165	55533	A	25303	1	1970	MKDDIFFRTSGGGVTLSGGEVL MQAEFATRFLQRLRLWGVSCA IETAGDAPASKLLPLAKLCDEV LFDLKIMDATQARDVVKMNLP RVLENLRLLVSEGVNVIPRLPLI PGFTLSRENMQQALDVLIPLNIR QIHLLPFHQYGEPKYRLLGKTW SMKEVPAPSSADVATMREMAE RAGLQVTVGEKWGVSIETQGA LGTENRLADEDIRRADVALLIT DIELAGAERFEHCRYVQCSIYA FLREPQRVMSAVREV

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25166	55534	A	25304	2804	3494	LSLAEWKCLNPSQRALYREVM LENYRNLEAVGQLQPQSTQRIP *GRICNGDRLTSQKGLDL\VLEA LPGLL\EQGGQLALLGAGDPVL QEGFLAAAAEYPGQVGVQIGY HEAFSHRIMGGADVILVPNRFE PCGLTQLYGLKYGTLPLVRRTG GLADTVSDCSLENLADGVASG FVFEDSNAWSLLRAIRRAFVLW SRPSLWRFVQRQAMAMDFSW Q\VAAKSYRELYYRLK
25167	55535	A	25305	1	1306	
25168	55536	A	25306	818	1658	
25169	55537	A	25307	2611	2826	
25170	55538	A	25308	609	2359	PPPKIAPVWGCRKKSLPARSKSI FCFALFFPFFLNGEIILPESPCPF WTLFRNDGGKKRDPLAPVYLL GKLTISPGPICPDMIGVLFDSTV RREVAHIGNVQHRFCGPLFLKL VEFIDFILTIDIAAIIRQYLVVICE VDQRINQIAIATRIFRTGYTAAD LRQIILMQLLIFLVVFTRFVALT TQFFHFFRCVTKNKDIVSTDMI QHLDIRTVQRTDSQRTVKRKLH VTGAGSFRPCQRNLFRQICRRN DQLRQANAVVRDEHDFQLIAN LRIVVDHFRYVIDQMNNVLRH VIGRSRLTAKNIHARYPLRIRVG LDAVIAEMASGLDPFWRPDVV HAHDWHAGLAPAYLAARGRP AKSEFTVHNLAYQGMFYAHH MNDIQLPWSFFNIHGLEFNGQIS FLKAGLYYADHITAVSPTYARE ITEPQFAYGMEGLLQQRHRERR LFGVLNGVDEKIWSPETDLLLA SRYTRDTLEDKAENKRQLQNA\ MGLKVDDKVPLFAVVSRLTSQ KGLDLVLEALPGLLEQGGQLA LLGAGDPVLQEGFLAAAAEYP GQVGVQIGYHEAFSHRIMGGA DVILVPSRFEPCGLTQLYGLKY GTLPLVRRTGGLADTVSDCSLE NLADGVASGFVFEDSNAWSLL RAIRRAFVL/WSRAGSWRYSAR AIRCCRKVSLRRQRNTPVRWAF RLAITKHFRIALWAARTSFWCP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25171	55539	A	25309	1028	1632	TSASAGTARNFSSNFAVRTTGH STSEATSSSRLSLKSALPPILRAA SSASALMFFVIGDDFPTSRRISG Y*SALSMVNSGSPIKRWPRITRS D*MPRMVAGMTLSP/MQQGHG VHRTHEVHVVAPQRISFGIGSF AREVATIFGSSASVFRR*YRNH APNLLTLCSVCLQRRTPGQSPG RVFRFHDPVAFRQVSYFQRQTP IA
25172	55540	A	25310	1	336	
25173	55541	A	25311	1889	2257	SAMTFPRSRRISGY*SALSMVN SGSPIKRWPRITRSD*MPRMVA GMTLSPSSRVTVCTGRTKCTSL APQRISFGIGSFAREVATRRPYR DIKEGFSQREAALLPQSLRVPQ TGTWSAAGAQA
25174	55542	B	25312	1	735	
25175	55543	A	25313	1439	1744	SAMTFPRSRRISGY*SALSMVN SGSPIKRWPRITRSD*MPRMVA GMTLSPMQQGHVPWQLMVVL WNTRQRWKPSSPDRYVNRAMS LPSRKGEMLKPAPCRK
25176	55544	A	25314	1209	1972	SAMTFPRSRRISGY*SALSMVN SGSPIKRWPRITRSD*MPRMVA GMTLSPSSRVTVCTGRTKCTSL APQRISFGIGSFAREVATIFGSSA SV/HFALHMGAIQQPFAFIGSQT LSLVNGNTATTPQPSAALLGLP SASNAWAIAGPRFSISRSGCASA RLATFSARRRGASKPLNGCLLR ATLSSPDKFQQGSTGGMLWGV LRHSPKFSITADGREFTLHWPN TGAMTGCATPGEYVWYSTFDN TQRKYPHPWEL

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25177	55545	A	25315	1	1521	METQHRLMRTFQPRQQDWTY ALWGGVKLRWLFFFLWGLFLF AGEEELGIRQTRTNDFLVTGDN LLRIFRFDVGNEDKVRQQFAVV RIHREVFLVTFHGVNQRFSRHR EEFLFEFCVTPKLNEGTTQRTN NRGIAVLNTGHRHPDLVAAVE QQLQQFTHTAYQIVPYESYVTL AEKINALAPVSGQAKTA\FFHP GSETG\ENGVKMVRAHTGTPG V\IAFRGG\FHGRTYMTMALTG KVAPYKIGFGPFP\GSVYHVPYP SDLHGISTQDSL\DAIERLFKSDI EAKQVAAIIFEPVQGEGGFNVA PKELVAAIRRLCDEHGIVMIAD EVQSGFARTGKLFAMDHYADK PDLMTMAKSLAGGMPLSGVVG NANIMDAPAPGGLGGTYAGNP LAVAAAHAVLNIIDKESLCERA NQLGQRLKNTLIDAKESVPAIA AVRGLGSMIAVEFNDPQTGEPS AAIAQKIQQRALAQGLLLLTCG AYGNVIRFLYPLTIPDAQFDAA
25178	55546	A	25316	114	187	RSTISSVRYGDDAFKP*RQAWN VL
25179	55547	A	25317	105	317	YLFFLSRFNHWISMEKKLGLSA LTALVLSS\SWARVFSVCRKIW RQLPARQHCSSAGVLLALAFYC WPLPC
25180	55548	A	25318	1	593	
25181	55549	A	25319	1	729	
25182	55550	A	25320	1	1005	
25183	55551	A	25321	1	1361	
25184	55552	B	25322	1	2793	
25185	55553	A	25323	27	255	

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25186	55554	A	25324	225	1408	RIIYMHMESQKIWFALSTPMEIR NECCLPSHSSPKMYLGACLF\PL SSSWGIDDRDDLLRT\HRMIDN GHAARLAGFVHRWFRYSPCEW RDYLAELNEQGQAYAQFVAST AECCGEGGIKAWDYVRMGFLS RMGVLNNWLSEEESLWIQSRIH LRALRYYSNWRQYFAGYTFGR QYWQSPEDDHLPLLREFLAQET TDVDIIRRAYLALLPSFHTETDP QGFKQLRHAYDDALPIAQSPAK SVLQPEEYEWEALLVEMLGLL HRIAMVQLSPAALGNDMAAIE LRMRELARTIPPTDIQLYYQTLL IGRKELPYRTCQLHACTSADTP LRKIPRFSGKLHFYAFCPNIYSS YHSAAKYGGSCQPGSTAHRLG YYWRWHFIAGLCHADPHAHSS
25187	55555	A	25325	230	380	
25188	55556	A	25326	432	1247	PSQEPSVHGRWMA*KGHSRIV* WRAYD*TH\FNPVLKKSVSLGS NIRHMLAEEATTEELDGT\GPV LV*PNRH*PAYWMRAYLNLKK MSCRSFRRKA*RW*CETQTVV HRDRVDQGNNHFDVVARHYH LYAFLRKERQLIFFKFKYARIQY AG
25189	55557	A	25327	10	638	SSVPTAGSRYNHLRAPRYSPLF ANYSMSDRCCKPFG/LDSSTG* WFQ*RSVPLPILLPDTSRHQL*C SDPTRNGPA\QACQRFFHIVERV ARVHHARFAATVTVDHVVIDQ RFFQICRT/PWCRLHRHHWRSSS GTR*TF*SPARHFCLLHNDSSYR STARPTCSGTDVPDRRCSDAHL CDHWSGSRAHADTDAECWCL NPQPAPSLLQCRR
25190	55558	A	25328	803	1622	
25191	55559	A	25329	498	686	RRPSYSVLQRLPSAVLLPYY*R DWYHRTAGRRRDGNAGRQHQ NGCYPDPPDRDGRRSAFRNP

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25192	55560	A	25330	1	2063	MKNFMENVLRYLSDDKWKPD AKASMTVGTNLDTVYFKRHGQ VTGNSAAFDFHPDFAGISVEHL SSYGDLDPQEMPLLILNGFEYV TQVGNDPYAIPLRADTSKPKLT QQDVTDLIAYLNKGGSVLIMEN VMSNLKEESASGFVRLLDAAG LSMALNKSVVNNDPQGYPNRV RQQRATGIWVYERYPAVDGAL PYTIDSKTGEVKWKYHVENKP DDKPKLEVASWLEDVDGNRKR NFSNDARANGTAAFTDCETQT VVHRDRVDQGHNHFDLVARH YHLYAFRQFDGTSHVSSTEVEL RTVAFEERSMTAAFISWTECTL QIRTCPQNPTGKVWTCDELEIM ADLCERHGVRVISDEIHMDMV WGEQPHIPWSNVARGDWALLT SGSKSFNIPALTGAYGIIENSSSR DAYLSALKGRDGLSSPSVLALT AHIAAYQQGAPWLDALRIYLK DNLTYIADKMNAAFPELNWQIP QSTYLAWLDLRPLNIDDNALQ KALIDQEKVAIMPGYTYGEEG RGFVRLNAGCPRSKLEKGVAG LINAIRAKKSATMIDTTLPLTDI HRHLDGNIRPQTILELGRQYNIS LPAQSLETLIPHVQVIANEPDLV SFLTKLDWGVKVLASLDACRR VAFENIEDAARHGLHYVELRFS PGYMAMAHQLPVAGVVEAVID GVREGCRTFGVQAKLIGIM
25193	55561	A	25331	2	696	FLLLLWEIRKSSQQTTPTEMNA AEMAQLVAGVDEVGRGPLVG AVVTAAVILDPARPIAGLNDSK KLSEK\RRLALYEEIKEKALSWS LGRAEPPEIDELNILHATMLAM QRAVVGLHIAPEYVLIDGNRCP KLPMPAMAVVKGDSRVPEISA ASILAKVTRDAEMAALDIVFPQ YGFAQHKGYPTAFHLEKLAEH GATEHHRRSFGPVKRA/LGTCV LILVSRLSKPESEDVL
25194	55562	A	25332	2	63	
25195	55563	B	25333	138	182	
25196	55564	A	25334	356	706	ISDICAPNMVSAIHAIPYTATMA IIPERKTSFFEIDAGLVLVRIIISA PVSSINI*ITSTIDSGLPPKDGRRS ESAPRRATTAIAPRKIHIASQLL VVIIIRSLVGCRMRRWRVLSD
25197	55565	A	25335	1746	1873	

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25198	55566	A	25336	1998	3626	PKAARMANVPNNTTGTAMVGI SVA/RHILQEQIHHQEHQHNGFE QRFYHFVNRKLDEWRGVIRVE NLHS/AAGRMAVIPPVLP*WLS RYREHSRRLPA*SPKGEAASNP EVIARTLRKLKNQPELSEDTIKK AVESLSLELVLTAHPTEITRRTL IHKMVEVNACLKQLDNKDIAD YEHNQLMRRLRQLIAQSWHTD EIRKLRPSPVDEAKWGLCRNGK TACGKAYQITWAELNKQLEEK PRLQTCPSKFGSGPFYF
25199	55567	A	25337	243	604	PRFPFPLPPATSSVQTAMTDG*N ECERICVGYLRYSSHSAPDARR QRARTHVPVGKHALPALTKAT HPSWWWQCAAMAEDSTDARQ LKA*WGVNGFLDLRSATMDGR LYPVAMCLLPATK
25200	55568	A	25338	1	3287	MPITLRRSVEKEQLIEIANTIMPF GKYKGRRLIDLPEEYLLWFARK DEFPAEARYTHIDLHVPAPLLV MFTLDTRQSACDRNPHLPIHVC SSWTSPKCAPRLWTRALLPRTR TPPYATGTTIGSRASWFVTFPD ASFYRRKAPRQEFHTSLQGRSL YVRQRSTANPTEITRRTLIHKM VEVNACLKQLDNKDIADYEHN QLMRRLRQLIAQSWHTDEIRKL RPSPEAIMTEQEKTSAVVEETR EAVDTTSQPVAT
25201	55569	A	25339	1	1425	
25202	55570	A	25340	534	1391	RQKRRLYQTYWYKQQPRYLPP EHRQRHRHQSAGVSRPYSGYG EVRPLSQYQPEWQCWEPDVEW VRQPPQDAITDPDFFCFYQPGM TFEQFVREFAEWFSQKRPAAM MIGIRADESYNRFVAIASLNKQ RFADDKPWTGGHSWYIYPIYD WKVADIWTWYANHQSLCNPL YNLMYQAGVPLRHMRICEPFG PEQRQGL\WLYHVIEPDRWAA MCAR\VS\GYTTGGLYPGQARG AAV*TEALKPSGLPQVCALNQC LLSVHRYAGHVRQERCDGADG RPAVHERRQLL
25203	55571	A	25341	786	1009	HHSHEQQFQWPVGASGVDRW AVYLHQICPLTQFQY/WCRARQ EGIMSSPGQQVGFIA*VTSSFSP R*KGRRVSSA
25204	55572	A	25342	2446	2970	
25205	55573	A	25343	1	2184	

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25206	55574	A	25344	706	1293	IHRLLIRRIHQIIDLRIWQRTVEI HGAPVRFIQMAAWTHIAVLLT* QLRQLRAGFQRNSWAIFYFFHH RKQYIFHFDLRRFPVIMHALFC AVQRCADLMAHRRQKRRFCLA GFFCFRPCLSVFYHQFLQFSCTR FDLRRQLFAVAIQCMNIAFAAA LVDFDLPDIDGITLARQLAQQY PSLVLIGFSAHVIDETLQ
25207	55575	A	25345	1	3291	
25208	55576	A	25346	882	1019	
25209	55577	A	25347	1	2265	
25210	55578	A	25348	284	535	CVAASVTGTRVLIPPLLNNRSR RSPVRYVSKGNWWGSVCNCAS NNSNSVSR*SLPPMRSHAWRKV RRIMRQLPLERPRPGFTI
25211	55579	A	25349	131	208	LVRWLLSPGW*WKISPIISICLFP V
25212	55580	A	25350	1	3108	MDSQDKYFEATQTVYEWCGV ATQLLAAYILLFDEYNEKKASA QKDILIKVLDDGITKLNEAQKS LLVSSQSFNNASGKLLALDSQL TNDFSEKSSYFQSQVDKIRKEA YAGAAAGVVAGPFGLIISYSIA AGVVEGKLIPELKNKLKSVQNF FTTLSNTVKQANKDIDAAKLKL TTEIAAIGEIKTETETTRFYVDY DDLMLSLLKEAAKKMINTCNE YQKRHGKKTLFETYLTDHPVTF RERLQMSIYKIPLPL
25213	55581	A	25351	1	296	
25214	55582	A	25352	3	164	VGD/NVGTTARWGIFALIIVETL AWFTVVASLFAQHKQRAENLI QRLHLLWSFNP
25215	55583	B	25353	91	990	
25216	55584	A	25354	1146	1881	RCGVQ\WTMYIRAVFVNLTNP KSIVFLAALFPQFIMPQQPQLM QYIVLGVTTIVVDIIVMIGYATL AQRIALWIKGPKQMKALNKIFG SLFMLHNAFAWFYLGAFLLTVI AWFLLGNAQKMPQTTLQWGIL VFLGVVASGIGYFMWNYGATQ VDAGTLGIMNNMHVSAGLLVN LAIWHQQPHWPTFITGALVILA SLWVHPNKRFRNWLTLLAIAH GGVQSAPQAFAQGFGHHQTLA LKTLYYPMR
25217	55585	A	25355	1943	2287	
25218	55586	A	25356	44	274	

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25219	55587	A	25357	876	1400	YRHVRDSPGNDRLFETWRSAG CAARLLRQSGETRLLSRVVRDY GGRWPVSLLDGLPDATWCTEK RGGFCTCATGRAGEKWAQFPE\ SLLTNLANPKAIIYFGSVFSLFV GDNVGTTARWGIFALIIVETLA WFTVVASLFALPQMRRGYQRL AKWIDGFAGALFAGFGIHLIISR
25220	55588	A	25358	1	1428	
25221	55589	A	25359	421	797	IIFPFLLFHLCNQLSHLLQYAVV NAPVRRILPIQLLWQQLIQPGEK LKSIRRAIQHIGQTQIIGMFIQMP IMIAYETDRATGDGI/WAAH*T HEYPCHVRQSQFHENHDDVQE NPPHPWKIQTPGH
25222	55590	A	25360	1	1320	
25223	55591	A	25361	1	1251	MLLSIITVAFRNLEGIVKTHASL AHLAQVEDISFEWIVVDGGSND GTREYLENLNGIFNLRFVSEPD NGIYDAMNKGIAMAQGKFALF LNSGDIFHQNAANFVRKLKMQ KDNVMITGDALLDFGDGHKIK RSANRAGLFLIGYGAFRIIVEFF RQPDAQFTGAWVQYISMGQILS IPMIVAGTMKQYLELMQKVLD EGTQKNDRTGTGTLSIFGHQMR FNLQDGFPLVTTKRCHLRSIIHE LLWFLQGDTNIAYLHENNVTI WDEWADENGDLGPVY\ITTVL NQLKNDPDSRRIIVSAWNVGE/ LDKMALAPCHAFFQFYVPDGK LSCQLYQRSCDVFLGLPFNIAS YALLVHMMAQQCDLEVGDFV WTGGDTHLYSNHMDQTHLQLS REPRPLPKLIIKRKPESIFDYRFE
25224	55592	A	25362	3	1327	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25225	55593	A	25363	1	2443	MGLIGFVLTALWIKLIHNPTDH PRMSAEELKFISENGAVVDMD HKKPGSAAASGPKLHYIKQLLS NRMMLGVFFGQYFINTITWFFL TWFPIYLVQEKGMSILKVGLVA SIPALCGFAGGVLGGVFSDYLI KRGLSLTLARKLPIVLGMLLAS TIILCNYTNNTTLVVMLMALAF FGKGFGALGWPVISDTAPKEIV GLCGGVFNVFGNVASIVTPLVI GYLVSELHSFNAALVFVGCSAL MTMSARSATGHECVFWCNGKP RRLAMRLIYWCAAAPTGDVVQ KLTGKWALIANSHRAGQPTRN VNEEVGQRLLEEMEWYDNYL NMGKTDRSANPSPGNKKGGLA NVVEKALGSIAKSGKSAIVEVL SPGQRPTKRGLIYAATPASDFV CGTQQVASGITVQVFTTGRGTP YGLMAVP/SH*NGNWKITASVT SIQPNTNELPNCCMNGVSTANT TSKSSLVICALR

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25226	55594	A	25364	1	2701	TFFLPAGEILPPRLEPQITLPVGS RRIISIAVTDLPEPESPHLRSGLG WASLCCFMVICKFFPAAEGLIL AAVCDSRGSRYWCNGNRRYG YASDLLVRCGATVMFSEVTEV RDAIHLLTPRAVNEEVGKRLLE EMEWYDNYLNMGKTDRSANP SPGNKKGGLGKRGSSKALWLP LLQIQARKQVGLRVYTVACVL RTGTWYDRNGPDWRVPGQLN MGNPAPETGRYRLAHPATPHD PRTTPDHPSHIKPHAPTNQQPDT LTPTHHHHTDTRDPSPPPPRTRT PRQSTHTTPPHPTTTTRHTDIHP PTHTNPPPPTRVLTRQLHHTNRI IPHRTHTTTTCRRNHHNQMNTTT PPPPHTPQITHRHHNTTLREQTQ KHRQHIHGTQHHTTRKPPTPTT RQYNTSIVGTIGGG\MVERKVIE ESLQALQERKPRLFHGRMARN GADAVGSDCGGAMSVFISVHG MRPRLVLIGAGHVNRAIAQSAA LLGFDIAVADIYRESLNPELFPP STTLLHAESFGAAVEALDIRPD NFVLIATNNQDREALDKLIEQPI AWLGLLASRRKVQLFLRQLRE KGVAEEHIARLHAPVGYNIGAE TPQEIAIRVLAEILQVKNNAPGG LMMKPSHPSGHQMVVIRGAGD IASGVALRLYHAGFNVIMLEVE KPTVIRCTVAFAQAVFDGEMT VEGVTARLATSSAEAMKLTER

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25227	55595	A	25365	1	1262	MGNWHLSPCPAPAPGHSCLFL VGTSPRILAVPGHTGSKAINKA ALLLESYMSQALKNLLTLLNLE KIEEGLFRGQSEDLGLRQVFAG QVGG\QPLYAAKEPVPEERLVH SFHSYFLRPGDSKKPIIYDVETL RDVAPVLDVAGATPPTIRHQRV TALVAPKNGSRDVRSCAGKMP TDGSIRAVLLPFQVSTIGGVTYE RVGTKDQGPQCPHVQRSSAVR PGPEAAPGDNSYPPYEDRSTCG MQAPDASYSANPDLSFTWSPCL SEDALHTSPLYCTTPTSGGEAF KGLASDLVPHEDKMVLQNGKC FTSPRHTEWAVLRAGHALARG RNLLDLAAGGMAWVSMSQEC PGPGTICSRDLQGTECLRMIQIL PPKDPVTRGSTHCNAGTKRELE EFSSQVTLTALIQPLMQVSAQF RAADGAP
25228	55596	A	25366	2	176	
25229	55597	A	25367	1	1395	MRESLELPRDLLNCCDQNANS DMDMKSRLRGYQMEIMNLLG AGVKDFELESDDLVYLVEEISK QQSIHDVAWLLLVAFVYICEQR NDLKSELIFTREAEHKSLENLEP DHVPEELDTSARNAGALTRRRE IRDAATLLRLGLAYGPGGMSLR EVTAWAQLHDVATLSDVALLK RLRNAADWFGILAAQTLAVRA AVTGCTSGKRLRLVDGTAISAP GGGSAEWRLHMGYDPHTCQFT DFELTDSRDAERLDRFAQTADE IRIADRGFGSRPECIRSLAFGEA DYIVRVHWRGLRWLTAEGMRF DMMGFLRGLDCGKNGETTVMI GNSGNKKAGAPFPARLIAVSLP PEKALISKTRLLSENRRKGRVV QAETLEAAGHVLLLTSLPEDEY SAEQVADCYRLRWQIELAFKR LKSLLHLDALRAKEPELAKAWI FANLLAAFLIDDII\SHRWISPPE
25230	55598	A	25368	482	765	

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25231	55599	A	25369	1	1575	MGSVTKSRGPTDSSAFFQINRD YSFLDYILGGCQLMFTPWARLL QSTCCEQCSKKAHDQFLADLA SILPSNTTPLIVSDAGFKVPWYK SVEKLGWYWLSRVRGKVQYA DLGAENWKPISNLHDMSSSHSK TLGYKSLTISNPISGQILLYKSRS KGRKNQRSTRTHCHHPSPKIYS ASAKEPWILATNLPVEIRTPKQL VNIYSKRMQIEETFRDLKSPAY GLGLRHSRTSSSERFDIMLLIAL MLQLTCWLAGVHAQKQAFRF MRLVDGTAISAPGGGSAEWRL HMGYDPHTCQFTDFELTDSRD AERLDRFAQTADEIRIADRGFG SRPECIRSLAFGEADYIVRVHW RGLRWLTAEGMRFDMMGFLR GLDCGKNGETTVMIGNSGNKK AGAPFPARLIAVSLPPEKALISK TRLLSENRRKGRVVQAETLEA AGHVLLLTSLPEDEYSAEQVAD CYRLRWQIELAFKRLKSLLHLD ALRAKEPELAKAWIFANLLAAF LIDDII\SHRWISPPEVPDPKRRT
25232	55600	A	25370	1	1341	MAGGRKFPDGGDRTTLCGLSQ PGVLAPRSPEKRRAINQRYPSK TGQLPASITDMMRTARHHLSG NGISVPKGAELAHPSTVLELFAI SAKPIHPEELDTSARNAGALTR RREIRDAATLLRLGLAYGPGG MSLREVTAWAQLHDVATLSDV ALLKRLRNAADWFGILAAQTL AVRAAVTGCTSGKRLRLVDGT AISAPGGGSAEWRLHMGYDPH TCQFTDFELTDSRDAERLDRFA QTADEIRIADRGFGSRPECIRSL AFGEADYIVRVHWRGLRWLTA EGMRFDMMGFLRGLDCGKNG ETTVMIGNSGNKKAGAPFPARL IAVSLPPEKALISKTRLLSENRR KGRVVQAETLEAAGHVLLLTS LPEDEYSAEQVADCYRLRWQIE LAFKRLKSLLHLDALRAKEPEL AKAWIFANLLAAFLIDDII\SHR WISPPEVPDPKRRT
25233	55601	B	25371	1	1233	

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25234	55602	A	25372	1	2197	SHSRGSPGKAVDFTLVSHAAW FGLPHFSTPAFNGQAMMLIAPV AVILVAENLGHLKAVAGMTGR NMDPYMGRAFVGDGLATMLS GSVGGSGVTTYAENIGVMAVT KVYSTLVFVAAAVIAMLLGFSP KFGALIHTIPAAVIGGASIVVFG LIAVAGARIWVQNRVDLSQNG CNPAYAEHHQHPGYSDKLKTR VSFSCLRIISTNLRRECRAQFRF HVDASARHGFRLWQIQGVAQP VFIITIREVEAAMRATAFGTEVG RNSRCIRRFHQVIQFQALNALG VELAGIDSRDPRLKVLEEMKRT FHWGRQTISKHIKIWLGLMLGR AMTPLMLDATSGKLTVWDGA HAGAAMGILAVTADQNSAELA YYKSGSFRIEDVLWPSAVTDDN IKRNAFAADGSVNSYSVPFSSV PLLQRQGRIKYAVTLAKYRTNS NEQQESKFAQATLQWGGPWGT TWYGGGQYAEYYRAAMFGLG FNLGDFGAISFDATQAKSTLAD QSEHKGQSYRFLYAKTLNHLG TNFQLMGYRYSTSGFYTLSDT MYKHMDGYEFNDGDDEDTPM WSRYYNLLYTKRGKLQSLISKT RLLSENRRKGRVVQAETLEAA GHVLLLTSLPEDEYSAEQVADC YRLRWQIELAFKRLKSLLHLDA LRAKEPELAKAWIFANLLAAFL IDDI\SHRWISPPERIPSARKWT
25235	55603	A	25373	1	2754	
25236	55604	A	25374	1	652	
25237	55605	A	25375	1	1800	

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25238	55606	A	25376	1	2187	MAGPRYPVSVQGAALVQIKRL QTFAFSVRWSDGSDTFVRRSW DEFRQLKKTLKETFPVEAGLLR RSDRVLPKLLGQASLDAPLLGR VGRTSRGLARLQLLETYSRRLL ATAERVARSPTITGFFAPQPLDL EPALPPGSRVILPTPEEQPLSRA AGRLSIHSLEAQSLRCLQPFCTQ DTRDRPFQAQAQESLDVLLRHP SGWWLVENEDRQTAWFPAPYL EEAAPGQGREGGPSLGSSGPQF CASRAYESSRADELSVPAGARV RVLETSDRGWWLCRYAGAGPE ELDTSARNAGALTRRREIRDAA TLLRLGLAYGPGGMSLREVTA WAQLHDVATLSDVALLKRLRN AADWFGILAAQTLAVRAAVTG CTSGKRLRLVDGTAISAPGGGS AEWRLHMGYDPHTCQFTDFEL TD\SRDGER\LARFAQPPDEIRIA DGEFVWRPKCIRSLAFGEADYI VGVHWRGLRWLTAEGMRFDM MGFLRGLDCGKNGETTVMIGN SGNKKSP\GFPFRARFIAVSLPPE KALISKTRL\LSENRRKGRVVQ AETLEAAGHVLLLTSLPEDEYS AEQVADCYRLRWQIELAFKRL KSLLHLDALRAKEPELAKAWIF ANLLAAFLIDDII\SHRWISPPEV PDPKRRTNSLWRITKMVIWSLQ VAIRGTVSLTAPSLCNSACCCC VSTNSATTLNDFAFARSVIDLTI
25239	55607	A	25377	2	333	RLGVWQDILSRRASCYHGMEV WDKDSFGHISFDDQSMGYSHL GHIVENSVIHYA\ARLVIGADGV DSWLRNKADIPLTFWDYQHHA LVATIRTEEPHDAVARQVFHGE AFW
25240	55608	A	25378	3	235	VAVLEQRVHEPLAANAPPQLR VS/ARLGVWQDILSRRASCYHG MEVWDKDSFGHISFDDQSMGY SHLGHIVENSVIHYA
25241	55609	A	25379	1	774	
25242	55610	A	25380	1	1076	

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25243	55611	A	25381	1138	1737	SVSTEPSVAAFSSIKLRQDPP/H DNLHHQYN*GDIAFC\FTPYFH NCLCQS*WARAFQ*RANEF*R MNCTQLARTSGSHHLIPLTLRF* QICISSGQLIQYSVVCRFIHPPEH RLTHPLAGQGVNLGFMDAAE LIAELKRLHRQGKDIGQYIYLR RYERSRKHSAALMLAGMQGFR DLFSGTNPAKKLLRDIGLKLAD
25244	55612	B	25382	1	735	
25245	55613	B	25383	1	1941	
25246	55614	B	25384	847	849	
25247	55615	A	25385	1	1227	
25248	55616	A	25386	324	1533	EGFMEHQRKLFQQRGYSEDLL PKTQSQRTWKTFNYFTLWMGS VHNVPNYVMVGGFFILGLSTFS IMLAIILSAFFIAAVMVLNGAAG SKYGVPFAMILRASYGVRGAL VPGLLRGGIAALMWFGLQRGS PFYDLIQTALSSPHKVTIEQFYR EVGVFLGIALIAVVISVLNNFFV SHYVFRWRTAMNEYYMANWQ QLRHIKGRTAFINAIMTLIAFLP VLVTLSAHVPELPIIGHIPYGLVI AAIVWSLMGTGLLAVVGIKLP GLEFKNQRVEAAYRKELVYGE DDATRATPPTVRELFSAVRKNY FRLYFHYMYFNIARILYLQVDN VFGLFLLFPSIVAGTITLGLMTQ ITNVFGQVRGAFQYLINSWTTL VEL\MSIYKRLRSFEHELDGDKI QEVTHTLS
25249	55617	A	25387	1526	1683	
25250	55618	A	25388	2709	2918	CWCFWHRRSCCGSVRYALSAV PGCQCPET*RRRFPHSAF*RFRS SETGQTGAYVSGPDLQPERLQR LWC
25251	55619	A	25389	1	1812	
25252	55620	A	25390	134	386	RLKPSAAIRRRVSSSRISTPLNPA STTAFVGTDCA\IPRLRATSGLA GSPLIQNRFCRARQPRWSAPVA RHAAVYARHRWNQII

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25253	55621	A	25391	181	1630	RIRQFCFYHHCVLTLAICAFIVIT LTIWVSFRVSVLVFAMADDIKV AVVGAMSGPIAQWGDMEFNG ARQAIKDINAKGGIKGDKLVGV EYDDACDPKQAVAVANKIVND GIKYVIGHLCSSSTQPASDIYED EGILMISPGATNPELTQRGYQHI MRTAGLDSSQGPTAAKYILETV KPQRIAIIHDKQQYGEGLARSV QDGLKAANANGVFFDGITAGE KDFSALIARLKKENIDIFVYYGG YYPEMGQMLRQARSVGLKTQF MGPEGVGNASLSNIAGDAA\EG MLAPVLITVDQPFVQAGFQPLR RLLPAHETGRRTRAYGVGRLT RQIRRQIATTFRHNAQAAESKD FQWYRCDPCQLFHLMNRQHAR QHHASNVKMAMIKVNRLFIGR RSLHRYVALNMRITLGGVLHH GEVGEDQRVGTQLRRHIHGAL PTGVTVRMRKSVNRDVKFAA MLMDKTHRFLQFFLGKVKAGE
25254	55622	A	25392	2	505	
25255	55623	A	25393	1	2038	
25256	55624	A	25394	188	1771	GKQTSTSPAGWENSLRMRYT\ MSFSLIATGLLGVYLTTMPGY WGILFVWALFGVTCDMMNWP VLLKSVSRLGNSEQQGRLFGFF ETGRGIVDTVVAFSALAVFTWF GSGLLGFKAGIWFYSLIVIAVGI IIFFVLNDKEEAPSVEVKKEDG ASKNTSMTSVLKDKTIWLIAFN VFFVYAVYCGLTFFIPFLKNIYL LPVALVGAYGIINQYCLKMIGG PIVLEKVLPPVVSVRVKGTASQ GQKIPEEFKQFFGDDLPDQPAQ PFEGLGSGVIINASKGYVLTNN HVINQAQKISIQLNDGREFDAK LIGSDDQSDIALLQINPSKLTQI AIADSDKLRVGRSGLNLEGLEN FIQTDASINRGNSGGALLNLNG ENPIDQLKVVGRPHDRIDGPLK TTGTARYAYEWHEEAPNAAYG YIVGSAIAKGRLTALDTDAAQK APGVLAVITASNAGALDKGDK NTARLLGGPTIEHYHQAIALVV AETFEQARAAASLVQAHYRRN KGAYSLADEKQTVNQPPEDTP

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25257	55625	A	25395	356	849	GSACRVREIPRPASQMP/HTLPA GSRPPGSEAEPGPEAAPPPARRE AHQIPRPRRGHLPSSPGPRTHVA AHNIRVVTEAHADSHALLSDLG AAPFVVMSRILRVDGDEDPPHV DESIQPTTENAVVFRPVQLTSAI ETGGKEEPYGLSAASLGRAESS AASLAGRR
25258	55626	A	25396	154	379	LVPRLKLGDLPSEINPLSSCSLV REKDPPTTSCTHT\TNPRNISPIS NPDSTGNRTVQLTW*PLPEPLE LWPKAL
25259	55627	A	25397	4761	5127	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQT\TSPRNISPISNPHTR TSKRLNRSGQAFLQNLLPQELA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPLELWPKAL
25260	55628	A	25398	1	753	MGSWLQGLRAMVFALNYMVT RVRNKKDPPTTSGPQT\TSPRNI SPISNPR/PKETRFICGPKTPAPL MDWEGSLPLMFNHCRDTSLIIH PCFQGVRPCRDACLSPSPLAASP AFLGKGQVPLNPFFTLSGKSRF SGGGASTPTPSFHVSTPSLLFW GRGKYPSTPSSPLVASPAFLGK GQVPLNPFFTLSGKSRFSGEGA KAPETITDAELRVTLTVEAAVC STIALSLGWEILPRHWGKEEVT KTIYYPVIP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 69/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25261	55629	A	25399	174	2238	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQT\TSPRNISPISNPRQR RHILSMDPKLRRRSWTWVGSLP LVFNHCRDASLIIHPGFRGVRPR RDVCLGPSPLATITDAELYVTL TVEGKSIPFLIDTEATHSTLPSFK GPVALASIHVQNVQIKRDKEGH YIMVKGSIQQEELTILNMYAPN TGAPRFIKQVLNDLQRDLDSHT IIMGDFNTPLSTLDRSTRQKVN KDIQDLNSALHQADLIDIYRTL HTKSTECTFFSAPHRTYSKIDHI VGSKALLSKCKRTEIIINCLSDH SAIKLELRIKKLTQNHSTTWKL NNLLLNDYWVHKEMKAEIKM FFEINENKNTTYQNLWDTFKAV CRGKFIALNAYKRKQERSKIDT LTSQLEELEKQEQTRSKASRRE EITKIRAELKEIETQKTLQKINES RSWFFEKINKIDILLARLIKKKR EKNQIDAIKNDKGDIATDPTEIQ TTIREYYKHLCPNKLENLEEMD KFLDTYTLPRLNQEEDESLNRPI TGSEIVAIINSLPTKKSPGPDGFT AKFYQRYKEELVPFLQKYKEEL VPFLLKLFQSIEKEGILPNSFSEA SIILIPKPGRDTTKKENFRPISLM NIDAKILNKILANQIQQHIKKLI HHDQVGFIPGMQGWFNIRKSIN VIQHINRTKDKNHMIISIDAEKA FDKIQQPSC
25262	55630	A	25400	3	267	EKDPLTTSGPQT\TSPRNISPISN LRLFAFTWTDPDTHQAQQITW AVLPQGFTDSPRYFSQAQISSLS VTYLSIILIKTHVLSLPIMSD
25263	55631	A	25401	167	408	LGSRTFPWEINPPSSCSLLREKD PPTTSGPQT\TRPRNISPISNLVS GLFLLSSPTSLTIPQPLSSFNLDD TLQSLPSLNF
25264	55632	A	25402	142	441	LRLGDLPWEINPLSSCSLLCEKD PPTTSGP\PRNISPISNPVSGLFLL SSPTCLTIPQPLSPFNLGATLQSL PSLNFNSFHFLVETKETRFIRGP KTPAP
25265	55633	A	25403	79	381	LGSGDLPWEINPLSSCSLLREKE PPTTSGPQT\TRPRNISPISNPELA TLAGNLATGPRNARSPGFLLSH VLSVWDPTENQTVQLTWQPLP QPLELWPKAL

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25266	55634	A	25404	1	511	MWKGPKGLDMYGKSSVSPKTS DILGRDTLLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQT\TSPRNISPILNR VSEVSDHAGTPALVLHP
25267	55635	A	25405	570	1182	LGSGDLPWEINPLSSCSLLHEK DPPTTSGPQT\TSPRNTSPISNLH ALKGLKPAITRLLQHGLLKPINS PYNSPILPVLKPDKPYKLVQDL CLINQIVFPIHPVVPNPYTLLSSI PPSTIHYSVLDLKLAFFTIPLHAS SQPLSAFTWADPDTHQVQQIT WAVLPQSFTDSPHYFSQAQISS LSVTYLSIILIKTHVLSLPIVSD
25268	55636	A	25406	489	615	LRNTWNSPRLMACALHSGSPSC TWGPYS*SGLSENLASQRVCPP YQNENVGRVRDTEIKEHCYEES SYRAATQIQVRKVGIITEPYPFM ASLRTHCIICETCYEMKISFSKS LNPLEKNKKSQPANCAVKEVS EQLRRRQAFSVAAGLKGKGSP AQSIRKNLQKPYQHFQTLQQLL PLQWAPCYGPSNFATHGTHQG LWLVLSTVAAQAVPGALIAEA TALLAWIQGAVS
25269	55637	A	25407	579	715	LGSGDLPWEISPL\SCSLLHEKD PPMTSGPQT\TSPRNISPISNLR
25270	55638	A	25408	1553	1896	
25271	55639	A	25409	964	1332	SCRFIRIYQGACCNLHPGEINSH VAHTKPVWWSLHTDTHENCHL NTAVFFYHWLALEFFLNPLRR/ CSC*HSLPGQFPVSLCLRVLSVD CAHPWGKPEAPGS*HPGPWQFS SLPSPLWPLYQHP
25272	55640	B	25410	1	717	
25273	55641	A	25411	590	1142	PNSSWMRGEPKKDPPTTSGPQT \TSPRNISPISNPR/PKETRFICGP KTPAPLMDWEGSLPLMFNHCR DTSLIIHPCFQGVRPCRDACLSP SPLAASPAFLGKGQVPLNPFFTL SGKSRFSGGGASTPTPSFHVSTP SLLFWGRGKYPSTPSSPLVASP AFLGKGQVPLNPFFTLSGKSRF SGEGA

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25274	55642	A	25412	1	790	MGLVHLQRQSYWTVQRSSINH FLGCNPHTGKDKTLYMRWTKS FRKVEDPPTTSGPQTDQPKKHL TKFKSETKETRFIHGPKTPAPV MDWEGSLPLVFNHCRDASLIIH SHFKGVRPRRDACLGPSPLAAS PAFLGKGQVPQPLISLCPDPLFP HPNLISLRPNPLCPHPDLVSLCP DPFPAFLEAHKNFQTPEPQQPGI PPEPPPPGACYKC/HEI*PPGQG MPAAQDSS*AMS/LSVRDPTGN QTVQLTWQPLPEPLELWPKAL
25275	55643	A	25413	1	736	MQAMEKWKREAKVETEKDQK NQYQQTWLSDSASGYRYTKLP FYFRHNNLIPALAHLLFLDSLYS DLLTAAFFMQFWLSAQMSSDQ RGLPGYLLWAEEISLLEISELTS GKQDSSWPEVKAGLKKEANYL SSDSARLHPGEINSLVAHTKPV WWSLHMDTHEIWCRDSNWGD LPWEINPLSSCSLLHEKDPPTTS GPQT\TSPRNILPISNPPSSKHQE KPPEAISTLPNAAATAAAAVGS LLWSL
25276	55644	A	25414	1644	2010	LGSGDLPWEINPSSSCSLLREKD PPTTSGPQT\TSPRNISPISNPHTR TSKRLNRSGQAFLQNLLPQELA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPLELWPKAL
25277	55645	A	25415	1	1035	MGKEVSLDVKKSIKVFKDNRS QGNRLQKLGLEDTDREDAMGF GSHRAKLTVVAALGACHCPEN EGQTVLPSSTSGRSDKRERVSA GYTPPFFVKEGVPSPLFKLHVV RCCSIQSHIHSRRSQNCAEDVIR KTKTDQAVSSMSSAPVTVQQL NIIPALLVALTCGWAFCLMVSQ EQYDEASKQAASFSNNAVIPVY MSHMSKTLYKSEVFPINTYAQK ICFIAHTKPVWWSLHMDAHEI WCRGRRSTDLPWE\INPLSSCSL LREKDPPMTSGPQT\TSPRNISPI LNQELATRAGNLATRPRNACSL GFLLSRISSVWDPT*KFGLVQLT LGKPLPEPLELWPKAL
25278	55646	A	25416	174	393	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQT\TSPRNISPISNPGET KETRFIRGPKTPAPVMDLGRQP SLGV

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25279	55647	A	25417	2	4574	WDVLGAVIGTECGTIESGLSMV FLKDGERKLCTPSMDTTGYGN LRFYFVMAKWIYIPENVVKGR KEIILVLDFTWCMVHRGICDPG NSHENDIILYAKIEGRKEHITLD TLSYSS/L/SSLYWPVMSQILFW QRTVH*TWL\QL*DGIPDIPNVY F*KLWQFQALLLP*LLLYPWC* SQLWLWCLGQW*GPGFQQRW AASANYIFP*QLTIQNNLRRTTR *CKAVWNSVQMVATVSFFPER RCMGY**DYHDICA
25280	55648	A	25418	1	363	
25281	55649	A	25419	1	301	
25282	55650	A	25420	2	309	
25283	55651	A	25421	3	512	YIGPSCLKFCSGRGQCTRHGCN\ CFMASQTFPMFISESFGSSRLSS YHNFYSIRGAEVSFGCGVLASG KALVFNKDGRRQLITSFLDSSQ SRIISVELPGDAKQFGIQFRWW QPYHSSQREDVWAIDEIIMTSV LFNSISLDFTNLVEVTQSLGFYL GNVQPYCGHDWTL
25284	55652	A	25422	2	878	
25285	55653	A	25423	1	750	
25286	55654	A	25424	1	1404	

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25287	55655	A	25425	1	2506	GCSRLLVTVDLNLTNAEFIQFY FMYGCLITPNNRNQGVLLEYSV NGGITWNLLMEIFYDQYSKPGF VNILLPPDAKEIATRFRWWQPR HDGLDQNDWAIDNVLISGSAD QRTVMLDTFSSAPVPQHERSPA DAGPVGRIAFDMFMEDKTSVN EHWLFHDDCTVERFCDSPDGV MLCGSHDGREVYAVTHDLTPT EGWIMQFKISVGCKVSEK1AQN QIHVQYSTDFGVSWNYLVPQC LPADPKCSGSVSQPSVFFPTKG WKRITYPLPESLVGNPVRFRFY QKYSDMQWAIDNFYLGPGCLD NCRGHGDCLREQCICDPGYSGP NCYLTHTLKTFLKERFDSEEIKP DLWMSLEGGSTCTECGILAEDT ALYFGGSTVRQAVTQDLDLRG AKHDYILLPEDALTNTTRLRW WQPFVISNGIVVSGVERAQWA LDNILIGGAEINPSQLVDTFDDE GTSHEENWSFYPNAVRTAGFC GNPSFHLYWPNKKKDKTHNAL SSRELIIQPGYMMQFKPFGFCRS DSWQLVQTQCLPSSSNSIGCSPF QFHEATIYNSVNSSSWKRITIQL PDHVSSSATQFRWIQKGEETEK QSW\AIDHVYIGEACPKLCSGH GYCTTGAICICDESFQGDDCSV FSHDLPSYIKDNFESARVTEAN WETIQGGVIGSGCGQLARYAH GDSLYFNGCQIKRAATKPL\DL
25288	55656	A	25426	146	1056I	GGGGGGGGGGMERSGWARQT FLLALLLGATLRARAAAGYYP RFSPFFFLCTHHGELEGDGEQG EVLISLHIAGNPTYYVPGQEYH VTISTSTFFDGLLVTGLYTSTSV QASQSIGGSSAFGFGIMSDHQF GNQFMCSVVASHVSHLPTTNLS FIWIAPPAGTGCVNFMATATHR GQVIFKDALAQQLCEQGAPTD VTVHPHLAEIHSDSIILRDDFDS YHQLQLNPNIWVECNNCETGE QCGAIMHGNAVTFCEP
25289	55657	A	25427	1	296	

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25290	55658	A	25428	1	557	MARSLGVLVALPFPLPVGFNAE EAHNIVKEFSPGKSHPRESLSQQ RETLVQAGAFHWFGWRGKEK LKPKFNTFGRLPNEMLEQWLSP TNQCVDGV/LKGGED\YNHNN1 NQWTASIVEQSL\THLVKLGKA YKYIVTCAVVQKSAYGFHTASS CFWDTTSDGTCTVRL/WENRT MN\CIVNVFCHCLFVL
25291	55659	A	25429	178	2270	VRRLFCVQTGGSPVGRGSLHHL WLVFSHVLSLLCSPCLLAPGM WGFHDRDLVLRKALYTMMRT GAEREALKRRWRWQQTQQNK ESGLVYTEEEWEREWTELLKL ASSEPRTHFSKNGGTGGGHLPP EGKPLHGCSSLLRSGKGGHVK AEPSRLQQSQAKPPLTSQIRALH FPIPSQINEKPGAGHWSAKLHFP YWQLGEAGEEEGSSPPDIMRCL LTCLSVPSTAVIPLTDSEHKLLP LHFAVDPGKDWEWGKDDNDN ARLAHLILSLEAKLNLLHSYMN VTWIRIPSETRAPLAQPESPTAS AGEDVQSLADSLDSDRDSVCS NSNSNNGKNGKDKEKEKQRKE KDKTRADSVANKLGSFSKTLGI KLKKNMGGLGGLVHGKMGRA NSANGKNGDSAERGKEKKAKS RKGSKEESGASASTSPSEKTTPS PTDKAAGASPAEKGGGPRGDA WKYSTDVKLSLNILRAAMQGE RKFIFAGLLLTSHRHQFHEEMIG YYLTSAQERFSAEQEQRRRDA ATAAAAAA\PPPPRP/ERPPRRP ETEGVPVPERASPGPPTQLVLK LKERPSPGPAAGRAARAAAGG TA/CPGGRRAACERQRTSAWPQ PPGASAPERHPRAGVGRAGRG VRAGRGGAAAVRHVPAAEPLA VVAELQPGARRRPAHRQHGRV AGARGARGPTGRGGDRGGGRA

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25292	55660	A	25430	404	1116	SLGPLMLSGQKLQTSYTMEYY AAIKR/DKIVSLVGTWLELEAIIL KKLMQEQKTKYHMFLLDSLSH GMQQAERVLIADGTMLLSAQY QFENNLLVPILRVSFRKSLQRKE EPGRKAKKSQTSGEGIKKRRFW FEWKEPVALSSQGWYEAKGSE RPEKGHLGLLRAESFQDLRTAL ISKPYFSVPGKVGPAIKCPETLP ELKTYPQYGVTLGEPVRNEQQ QASSFPSLSNTHLSKKRNES
25293	55661	A	25432	1571	1782	WLLCRLPPRVPDQL*WCGCQPE KCAGAEFQDGSAMPLPSRTCPH SPRMCTGWSTTCATTDSATTA CPLAL
25294	55662	B	25433	69	1160	
25295	55663	A	25434	14	437	LQTSHPYPTTSKC/PPP/CEKPSP TSL/C*RRSAPHLQPPE
25296	55664	A	25435	782	997	MMLCQLQRPV/CGSHSCSRG/C PPAQ/CPSPVPVPSPQSAFPVPQS PSSTCPNPSHPIHPIPMVPSSWSG HWDSK
25297	55665	A	25436	1117	1815	GDAHTEQCLQNLYPRGSRPPLP LESHPSSSKHSPKACPTGRS/CG PWK/CPGPEVRP*PPPSCTR*DP HFRGLLEGLLEPRHVTCLALCG PQRVLYWPVYHERLGEGWDW CPSSWPGA

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25298	55666	A	25437	1261	2757	ALGKDEKSQGPPIQTGGLGPRL FRLPSSQGQERRFAAAKAPSSL VPHNGSPLSCWRGLREEGGLSL ATLWTPCGVGSGVPAAPPSAW CDLGKLLVCWRGQNRGPRSTQ TDVRRHEARSRQRRRKCVAAP VAPRSRRWRCPAALAAPAVAV PVVFALIFLLGTVGNGLVLAVL LQPGPSAWQEPGSTTDLFILNL AVADLCFILCCVPFQATIYTLD AWLFGALVCKAVHLLIYLTMY ASSFTLAAVSVDRCAVPG\HPL GRAVGAGVGGGVLNVGLVWL LAALFSAPYLSYYGTVRYGALE LCVPAWEDARRRALDVATFAA GYLLPVAVVSLAYGRTLRFLW AAVGPAGAAAAEARRRATGRA GRAMLAVAALYALCWGPHHA LILCFWYGRFAFSPATYACRLA SHCLAYANSCLNPLVYALASR HFRARFRRLWPCGRRRRHRAR RALRRVRPASSGPPGCPGDARP SGRLLAGGGQGPEPREGPVHG GEAARGPE
25299	55667	A	25438	1	1624	MKDKSKTLGLEASIFRNNWKC KSIFEGLKGHQEGYFSQMIISYE KIPSYRKSKSLTPHQRIHNTEKS YVCKECGKACSHGSKLVQHER THTAEKHFECKECGKNYLSAY QLNVHQRFHTGEKPYECKECG KTFSWGSSLVKHERIHTGEKPY ECKECGKAFSRGYHLTQHQKIH TGVKSYKCKECGKAFFWGSSL AKHEIIHTGEKPYKCKECGKAF SRGYQLTQHQKIHTGKKPYEC KICGKAFCWGYQLTRHQIFHTG EKPYECKECGKAFNCGSSLIQH ERIHTGEKPYECKECGKAFSRG YHLSQHQKIHTGEKPFECKECG KAFSWGSSLVKHERVHTGEKS HECKECGKTFCSGYQLTRHQV FHTGEKPYECKECGKAFNCGSS LVQHERIHTGEKPYE\CKECGK GFS\GGYHLTQHQKIHTGEKPF KCKE\CGKAFSWGSSLVKHERV HTNEKSYECKDCGKAFGSGYQ LSVHQRFHTGEKLYQRKEFGK TFTHGSKLVHERTHSNDKPYK YNECGEAFLWTTYSNEKIDTDE

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25300	55668	A	25439	32	447	VLGGSMMFREGQRGNRQKGP KKRRNLALSSALLASTA\PAGG QPRHWRPG*CCLRQQL*PLQGN WAPVSPLQGHRSQLRAGYSISS FLQMFAP*VQGAARAQPAPGA AVPRGSGRQGGPRAVDLHGFR VGWNRLRAASM
25301	55669	A	25440	1	858	
25302	55670	A	25441	147	1088	SRTTYKGKSSFQTYSDYLRWES FLQQQLQALPEGSVLRRGFQTC EHWKQIFMEIVGVQSALCGLVL SLLICVAAVAVFTTHILLLLPVL LSILGIVCLVVTIMYWSGWEMG AVEAISLSILVGSSVDYCVHLVE GYLLAGENLPPHQAEDARTQR QWRTLEAVRHVGVAIVSSALT TVIATVPLFFCIIAPFAKFGKIVA LNTGVSILYTLTVSTALLGIMAP SSFTRTRTS/CPQGPGCRAAGRG PGAGCLPRAPAERL*DSPARRG LPIARDGLWTLAPLVPWVGDR SCFPARLQLAVSPGLGPGRPAG
25303	55671	A	25442	1	1596	MGVSVRVDCGCARASEFLGRP RGAVRGADPGSGLTETCAQSR TWARARSKGGFRLTLNFYGPR YPSEGTSRGQRSEALPFLDIQHP TPLGRPRMLQSRGEMVRSWGP VVEGKLGFCPPLTVFPGGLRGP HPGLAGERENFARGAKQEACL LQGPGDAGLTHPCPATGYFPEA SCTSRSIRMFINSQERQLADMSL FIADSWLCYSGIICWKSLEHQR GASLSCVYMEGKGGNIWMKAS NVLPLCQMLPTSGHSKSDLFGG LAVEKQMRQDHHILLHDRSGF QLAVTSPLLTRLGKGHIIQVPV YVLDAPSRWLGGLRLFRDSSCG LVLSLLICVAAVAVFTTHILLLL PVLLSILGIVCLVVTIMYWSGW EMGAVEAISLSILVGSSVDYCV HLVEGYLLAGENLPPHQAEDA RTQRQWRTLEAVRHVGVAIVS SALTTVIATVPLFFCIIAPFAKFG KIVALNTGVSILYTLTVSTALLG IMAPSSFTRTRTS/CPQGPGCRA AGRGPGAGCLPRAPAERL*DSP

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25304	55672	A	25443	1	2355	MDHPGFREFCWKPHEVLKDLP LGSYSYCSPPSSLMTYFFPTERG GKIYYDGMGQDLADIRGSLEL AMTHPEFYWYVDEGLSADNLK SSLLRSEILFGAPLPNYYSVDDR WEEQRAKFQSFVVTYVAMLAK QSTSKVQVLYGGTDLFDYEVR RTFNNDMLLAFISSSCIAALVYI LTSCSVFLSFFGIASIGLSCLVAL FLYHVVFGIQYLGILNGVAAFV IVGIGVDDVFVFINTYRQATHL EDPQLRMIHTVQTAGKATFFTS LTTAAAYAANVFSQIPAVHDFG LFMSLIVSCCWLAVLVTMPAA LGLWSLYLAPLESSCQTSCHQN CSRKTSLHFPGDVFAAPEQVGG SPAQGPIPYLDDDIPLLEVEEEP VSLELGDVSLVSVSPEGLQPAS NTGSRGHLIVQLQELLHHWVL WSAVKSRWVIVGLFVSILILSLV FASRLR\SASRAPLLFRPDTNIQ VLLDLKYNLSAEGISCITCSGLF QEKPHSLQNNIRTSLEKKRRGS GVPWASRPEATLQDFPGTVYIS KVKSQGHPAVYRLSLNASLPAP WQAVSPGDGEVPSFQVYRAPF GNFTKKLTACMSTVGLLQAAS PSRKWMLTTLACDAKRGWKF DFSFYVATKEQQHTRKLYFAQS HKPPFHGRVCMAPPGCLLSSSP DGPTKGFFFVPSEKVPKARLSA TFGFNPCVNTGCGKPAVRPLVD

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25305	55673	A	25444	1	1737	MLYAAECLRNVMKLQVIPSAL NEALQAQSTWSDLGLASHALS STWCLHGESAAWSQPAVVECG QPRDQLQTHSEAWLCALVATF SQELEQFAVTGAQISDRQGHAV CTAPPRGRPSTLMTNLVCASSA DECGGGKTETQTAGGRLQGAE TRSRGQLTRLITRTQAAEPRWF LQLLKRSANRSRALTRPFSGLSS DGARRLRLSFVSAVSSADTKPT VPVSSDSSGRDGCGETRAEAGP GGPHVAQPQRVAPPAAAARDF RKPRGLNRQNVSP/PGPGEQGP G/PRPQKPAGRAP\PEPQGEPGL GLFPR\GRPPRSFPGSPADPAAS VSHTQGPSPDTGLPGTCQNRLP NPAAVDEQTCTRGSLNCRLSRS PRVSERRGPEGTPGRRPAAPPQ CAGTRGLSPRADLGAAIRTPRA PYRPHGQGRPSRHNCDSVSSQG WPPHSCWWKTTSNGMPWKAS FCSRTAQPANQNTGNHERGLRS VAMFGDRASREATPALSLCESQ GCFEDEKEVFSPEPHVETSDEPL PICSGPGDGWGDPIARPGRGNN LSPGTSAWEVPRWIRVTGEDW LSTGPAECVFINDLTT

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25306	55674	A	25445	2	1642	LLSSISAWFGPPASTPAFTMS\R VTQKSYKVS\TSCPRAFSTRSYT SRPGSRISSSSFSRVGSSNFRGDL GGGYGGASG\MGGITAVTVNQ SLLSPLVPEVDPNIQAVRTQEKE QIKTLNNKFASF\DEVGFLEQQ NKMLGTKWSLLDQQKTA\RSN MDNMFESYINNLRRQLETLGQ EKLKLEAELGNMQPLVEDFKN KYEDEINKRTEMENEFVLIKKD ADEASMNKVELGSRLEGLTDEI NFLMQLYEEEIRELQSQISDTSV VLSMDKSRSLDMDSIIAEFKAQ YEDIANRSRAEAESMFQIMYEE LQSLAGKHGDDLRRTKTEISEM NRNISR\LQAEIEGLKGQR\ASL GGRPLQDAE\QRGKSWPIK\DA NAK\LSEAGSPPLQAGPKQDMG R\QLREYVQKLMNVKAGPWTIE\ IATYQESCLEGEEEPGWSLGCQ NMSI\HT\KTTQRGYAGRPEPPP MGGFTSP\GFSYKPGAPGFGSG AGS\SSFNRHQLSPGAVVVKKIE TRDGKLVSES\SNVLPKVKQLR QPLPSLPLLRCPRGLGKEAPYP
25307	55675	A	25446	1	1280	MAYLCNAICMTHMVTLDPVDQ ALPGATTATSVPGPQCDASCM MLFAVVPFNGIALAATQGAQS MLPPRVQGSLSSKPSTRRGRDA PGLQVSQAPPPRRGFAVGRRYS PPALAPGRCAAPHGGGRKELPT RRPGHGMAPKFPDSVEELRAA\ GSESFRNGQYAEASALYGRAL RVLQAQGSSDPEEESVLYSNRA ACHLKDGNCRDCITDCTSALAL GPFSIKPLLRRASAYEALEKYP MAYVDYKTVLQIDDNVTSAVE GINRGPGLKEDTTQKRWNSLPS ENHKEMAKSKSKETTATKNRV PSAGDVEKARVLKEEGNELVK KGNHKKAIEKYSESLLCSNLES ATYSNRALCYLVLKQYTEAVK DCTEALKLDGKNVKAFYRRAQ AHKALKDYKSSFADISNLLQIEP RNGPAQKLRQEVKQNLH

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25308	55676	A	25447	1	1297	MHLLSAYFVPGSMLVGSGYM MVNITDVSPPSWSFLCSMLITTT QGAQSMLPPRVQGSLSSKPSTR RGRDAPGLQVSQAPPPRRGFAV GRRYSPPALAPGRCAAPHGGG RKELPTRRPGHGMAPKFPDSVE ELRAAGNESFRNGQYAEASAL YGCALRVLQAQGSSDPEEESVL YSNRAACHLKDGNCRDCIKDC TSALALVPFSIKPLLRRASAYEA LEKYPMAYVDYKTVLQIDDNV TSAVEGINRMTRALMDSL\GPE W/RALKLPSFPLVPVSAQKRWN FLPSENHKEMAKSKSKETTATK NRVPSAGDVEKARVLKEEGNE LVKKGNHKIAIEKYSESLLCSN LESATYSNRALCYLVLKQYTEA VKDCTEALKLDGKNVKAFYRR AQAHKALKDYKSSFADI\SNLL QIEPR\NGPAQEVAGREVKQNL
25309	55677	A	25448	3	491	GITFTHSPAATGGGAQRVRRRD PPPGVQLRNMAQETNHSQVPM LCSTGCGFYGNPRTNGMCSVC YKEHLQRQNSSNGRISPPATSV SSLSESLPVQCTDGSVPEAQSAL DSTSSSMQPSPVSNQSLLSESV\ ASSQLGQYICGTKAVPETEDVQ ASVSDTAHV
25310	55678	A	25449	1	860	HLLLLAIDYNLPIAGVLMESQY LGASPKRLVIPNLYAHRKSLAT LEPYAPRRPMPIARRYAIPYMS HHNGYIGDVYYRLTVEEKKSSF IARRSILTTEFTIRRTKKVPVPSI NMSSASPLEDESRPSAGVQLRK GRYRLLRDRYRPGCNSVGESPR KSSFSDDIMATESRESIFAEEPR TGEHSVRGPVSNQSLLSESVAS SQLDSTSVDKAVPETEDVQDSL NASPTKQQCG/DVQTVDLYSNN KELFAQKCYRHRYISRLKKCCL CHELVPRDTIKSPESLSVGS
25311	55679	A	25450	880	1196	SPTTRRGTPGTCLKPTACAGAA *PGCSARRTCASAAPLSTCPPSS CAAPPPAPAAVPSTPRPTSPSPW AAPASPSRRRTQTASTPASTNR APSSCWAPTTRPLAP
25312	55680	A	25451	254	579	IEKISLEPKNRPSPQIPNLVGP/R LFLVPGDFQSQVPNFLPFKPSSG PHPAAGKGQPFSFLPAWRSTGP ERATPGPGRPAACSALEAPSLR GPSGYSAQEPPRRPISARI

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25313	55681	A	25452	6	1442	RSELIRHSWPRHAQLRGARART AVSIRECISVHVGQAGVQIGNA CWELFCLEHGIQADGTFDAQAS KINDDDSFTIFFSETGNGKHVP RAAMIDLEPTVVDEVRAGTYR QLFHPEQLITGKEDAANNYAPG PPTPGGKESIDLV\LDRIRKLTD ACSGLQGFLIFHSFGGGTGSGFT SLLMERLSLDYGKKSKLEFAIY PAPQVSTAVVEPYNSILTTHTTL EHSDCAFMVDNEAIYDICRRNL DIERPTYTNLNRLISQIVSSITAS LRFDGALNVDLTEFQTNLVPYP RIHFPLVTYAPIISAEKAYHEQL SVAEITSSCFEPNSQMVKCDPR HGKYMA\CCMLYRGDVVPKD VNVAIAAIKTKRTIQFVDWCPT GF\KVGINYQPPTVVPGGDLAP VQRAVCMLSNTTAIAEAWARL\ DHKFDLMYAKRAF\VHWYVGR GDWKKGEFSEAREDLAALEKD YEEVGVDSVEAEAEEGEEY
25314	55682	A	25453	3	618	SSAGREPDPSDLPRRLCFTHRLP AARRWVQLCVHASPEPGGQGV CPGRSERMVIRVFIASSSGFVAI KKKQQDVVRFLEANKIEFEEVD ITMSEEQRQWMYKNVPPDKKP TQGNPLPPQIF\NGDRYCGLLVS FSVICIKNPNWHNLFLLIPWSGI NPYCEQDSSFSENVGDEILKNS GVPRDFTSILIQKERKSEKVKG VDQGHR
25315	55683	A	25454	3	424	SWTMAATIQAMERKIESQAAH LLSLEGQTGMA*S*GTPPCCPG AAAGSRSSCCAAGSPRSPAASA AARTPAAGSPARPTCPPAGSRT PRLSSRNQPASSRPSRFDLLGKA GEQPAIQSSSPWPESWLPSSTK
25316	55684	A	25456	268	445	
25317	55685	A	25457	3	205	
25318	55686	A	25458	27	272	AKCSGQGPGRVRAQGERADHE CPGAGAGGGGCNSAASAREES SRLISG\SI.QMQNVSLASRRKEE EVRAAAAGGAAAGRPRV
25319	55687	A	25459	1	253	
25320	55688	A	25460	2145	2399	

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25321	55689	A	25461	174	1309	HLLCCRAQRRPQTPPAARGLEA CSEGALKMPEAPP\LLLAAVLL GLVLLVVLLLLLRHWGWGLCL IGWNEFILQPIHNLLMGDTKEQ RI\LNHVLAACGSPGNAQSVLG GHLTPNCEQKEW/APLNVGDK KGQDSWDALISREQPALPCLLG NLGAYFGLLQLLRMAR\LLVNQ GARLIHHSRFNPDLCPPSPKRM\ VDFAGVKDKALFQVTL\VCGAS PETFHPPSLKKKYDVGHNWTW VFLDHWKDRYL\PDTLLLE\EC G\LLPEGGQLLLAEQRLSSPGAP \DFL\AHVSREPACFG\CT\HYQI VPWKYRE\VVDGLGRRPI\YKG P\GSEAGALTAPPRPPSRALSPK PGTEGARPWLLLTLVRLRACVL NAKSHARAESLRA
25322	55690	A	25462	2470	3460	SGPCPRCCAECRPYKTRPRSRV PGTHGPGPADHGQPPCCMAGA HPPRPQAWMLLQTHSQDCEGK VGCGGIFCPCYHHCKHTHHHH HHPHHHHYHYHHHNHHQHHH HHHHHHYHHYHSHYHHYHHH HLHHH\HHHHHHPYPHHYHHH RGQDHHPHPHHHH/HHHYHHH HYHHHYHPHHPHHHHQPQH HHHQHYHHHYHHHHPHPHH PHHHHHYHYHHHHHHHY\HPY PHHYHHHHHHHHHPHPHHH/ HHHYHHHPHHNHYHHHHPH HHHRPHHHHRHQHPHHYHHH HPHPCHHHRLHHHHRHHHYHH TSSVQGPGSQPAGASLPGQACR
25323	55691	A	25463	1	407	DAERQEALGIVRRIGTDTEAAT EPAGATVPAAAAAARIGTVGP QPPAMPRRKRNAGSSSDGTEDS DFSTDLEHTDSSFSDGTSRRSA RVTRSSARLSQSSSRISRSCSKS GSLLALRSLLTLPEE*PVVSSSL

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25324	55692	A	25464	3	2539	RILYIPDGHRAPGASQSGNWEH PLLLLEPGNLASSPSMSLAYPHP CGLTIHQEHRRAHEELAYTPND RASSTGHPAFIEDGNPSPVLAFA ASPRPNDSYILKREPPESCEKER VFEEATTRGKYGEGAKQETFTF ALTLVFIQCVINAVFAKILIQFF DTARVDRTRSWLYAACSISYLG AMVSSNSALQFVNYPTQVLGK SCKPIPVMLLGVTLLKKKYPLA KYLCVLLIVAGVALFMYKPKK VVGIEEHTVGYGELLLLSLTL DGLTGVSQDHMRAHYQTGSN HMMLNINLWSTLLLGMAVSCP DQGPELVPRCPFVQALEKPSWK NLHQQDLFATCYWHNEGESCV SCHGKTLSSKTQGGILFTGELW EFLSFAERYPAIIYNILLFGLTSA LGQSFIFMTVVYFGPLTCSIITTT RKFFTILASVILFANPISPMQWV GTVLVFLGSTQIILDNLKILNTS AKTLLYKTPLSWQELEGERASS CAHKRSASWGSTDHRKEISKLK QQLQRTKLSRSGKEKERGSPLL GDH/VSAGSTEGVPS/RASPQGP LSCDSAPACT/VSLEGLNQELEE VFVKEQGEEELLRILDIPDGHR APAPPQSGSCDHPLLLLEPGNL ASSPSMSLASPQPCGLASHEEH RGAAEELASTPNDKASSPGHPA FLEDGSPSPVLAFAASPRPNHSY IFKREPPEGCEKVRVFEEATHQ
25325	55693	A	25465	845	1316	LSLGDSAQCLLPHASWCQVAG HPAFLEDGSPSPVLAFAASPRPN HSYIFKREPPEGCEKVRVFEEAT S/RRVLTGPFLTSCPDK\NKVHF QP\TGSAFCPVNLMKPLFPGMG FIFRNCPSNPGISSSPGQPQATTS EGSGSLQGLPTAIRAMAAHPYH Q

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25326	55694	A	25466	1077	1506	CDACGRRCRTCRTFCLGLQPAG LDGHHHRHPDCWFPWSPRHR* GMIIDVFSRYSGSEGSTQTLTKG ELKVLMEKELPGFLQILTNEDE PLVTIPFLSHSCSLAYLLTTSGN RVNALLKWLLKLGERWQMTE EGIKGQRSGHGPEQAENPLGDS VPQDTTKDVPLTQHRLHQGLE AGVPKTSVPARPGLPVPALQHA QIPGPCERALLHCHNGPQRLQH SLQGEEQRETHLRGQDWPCTL QMRTLKREVHALPGGRAGGAA REGLGASICETGEHQMTNFQVP RWPPCFPGQAGPVLGTGTRHG LDLLSGRPGTVRKGSSVARIMK EEVTVTKQSAADLRHTGQGPT CCVLSGGRCGSQACSRRPFSLL LGDESEPHGRGPFAAALHHRR NPLNDVMLVGDDAGPAGHFAS VYNPLAWTVTTIVTLTVGFPGV RVTDEAGHPVPSQVSGIQRCLQ GMKAPPVTVTVSGEKGSCLCA SCVLCLEHPYFPLVPWLPPVFR DSVIPSSTSPQEAVLADVGFRN NVPQRAQLKPQKQILTPF
25327	55695	B	25467	31	783	
25328	55696	A	25468	846	1392	PDPAAHRFGHPTLHPGSLRTSS GAGTWYQNPQHHNDHDYYHH HHHHDDHHYHYHHHHHHHHH HHYHHHHHHHHHHHHHHHHH HHHQHHHHHHHHYHHHHHHH HHHHHHHHHHHHHDQHHHHH HHHHHHHHHHH/HF/HHHDH HHHHHHHDHHHHHHHHHHH HHHHHHHHHHHHHDHHHHH YP
25329	55697	A	25469	181	412	LRSDQQTRKFVSRSSGACSPPTT TELSWPPSLLPSL*FHSPSSQP* MNHSASTTSPLPSFITERESILAT EWDTARN

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25330	55698	A	25470	1	848	MPSLNTIVSPLGSPHTSLIPPML LSANLPFDTTIMIKLQTACSAPI HNLQRPCGENLRTSTFVRRLDR NLVKSPQPGGGGQPSRQWEAR GAEPQGRRDPSEVQ/RPAGRGF GRISRAPRKPSRAPTPTQGLGPP LGAGGQGSLASCRPARKNARPP TRAAAHSAHPHSHWHSHARPQ PQSPSAAGQSGDPWPPARVPPP PLLRLPQRRTAGRTPVDAPARG IFTLSLSSSHSKSSGKHRGARKT PEMWPLFRGSLSKLSRRRKVSP SAALHWRLRRTQKRLCC
25331	55699	A	25471	92	1083	TMRTHGHRKGNITPWGLSGVG GL/ETGRALGEIPNVDEGLMGVI AAVAIVLVSLLFVMLRYMYRH KGTYHTNEAKGTEFAESADAA LQQRERALDSSRDSHLETLGAC PGRNGGGLALQEATPRDPGRR WPPQRPPFAPRRWEKIWAHGPL GSAGQHQLTGRKVLVEGLGCI CMAHTDLQNTSVAKMAINRPN EYAQVSLENDVSCKVKAVQAP QRLHWPSVDADTGGRGAVHIA FPKHVEPETPFAHTIPARNSWT KWSSEHILETLSPQKPALPWAP RQQGRPLGLTAPISKRLGPGDG PEGEAGERLAQAHFINTRPPST GPPGTPAAD
25332	55700	A	25472	73	424	RPGMWSTRSPNSTAWPLSLEPD PGMASACTTMHTTTTIAEPDPG MSGWPDGRMETSSPTIMDIVVI *CAIAAEAIVLVSLLFVMLRYM YRHMGTYHTNEAKGTGVADS ADACPAGDPA
25333	55701	A	25473	139	546	RPGMWSTRSPNSTAWPLSLEPD PGMASASTTMHNYHHCRSLIPG M\SGWPDGRMETSTPTIMDIVVI AGVIAAV\AIV\LVSLLFVMVAL TCNRA/HRGTYHTNEAKG\TEF AESADAALQG\DPAL\QDAGDS SRK\EYFI
25334	55702	C	25474	142	408	

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25335	55703	A	25475	44	727	ARAGSRSRGLPFCGTAGPPPKA TLWGGLLRLGSLLSLSCLALSV LLLAQLSDAANNFEDVRCKCIC PPYKENSGHIYNKNISQKDCDC LHVV\DPMPVPGA\NVEAYCLR CECKYEE\RSS\STIKVTIIIYLSIL GLLL\LYMVYLTLVEPI\LKRRLF GHAQLIQSDDDIGDHQPFGKCT RCASPLPQFEPTCWNKVEYAQ QALESFQVQEQRKSV\FDRACC PQLNLGN
25336	55704	A	25476	11	1323	VVLLVSVNTEAEESEKAATEQR /PLEGTDQTLDVEEEQEESKAA ACGSKKRVVPGIVYLGHIPPHF QPLHVRNLLSAYG/RSPSHYDL WNLKYLHHFTWSHHSEHLAFE RQVC\HRQHLRVEVTQAKCETI FYLQSVEWGQCFLAVDGDLAH PDGSWTFAQRPTEQELRARKA AQPVGKVLNYYPTQLSLECEVP SQPMGTGHSHRGLCQDVKVIN VPVSFVWCALVAGLLVVVPPPP PQAPEAEVSDISLKRGLQREIEQ CRRDIQNFPFPCASEELASQLFP LMEVPQGRGTTGFMNAPLTTS EVRGLKKELKPLLDDPERVAEQ IDQFLGSKLYTWTELMSILGILF SKEERNMICRAAMGAWERDYP AGQNIPAADVTFPARDPQWNN NNAAHQKNMRDLQELIIKGIKE SAPRPQNLTKAFDEQQEKDEGP
25337	55705	A	25477	1	490	GTSGTRPLVSVNMEAEESEKA\ ATEQEPLEGTEQTLYAEEEQEE SEEAACGSKKRVVPGIVYLGHI PPRFRPLHVRNLLSAYGEVGRV FFQAEDRFVRRKKKAAAAAGG KKRSYTKDYTEGWVEV\RDTR\ IAKRVA\AALLK*PMGARRRSP FRYDLWNLKYLHR
25338	55706	A	25478	2	574	

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25339	55707	A	25479	160	1548	KTSSQTLSLALTMFQRLNKMFV GEVSSSSNQEPEFNEKEDDEWI LVDFIDTCTGFSAEEEEEEEDIS EESPTEHPSVFSCLPASLECLAD TSDSCFLQFESCPMEESWFITPP PCFTAGGLTTIKVETSPMENLLI EHPSMSVYAVHNSCPGLSEATR GTDELHSPSSPSILPNKMLSVHV GTAIHNQAALCQSVESYWQCGI QLLTQFQSQSKLGQLLAATCKE LPGPKESRRTAKDLWEVVVQIC SVSSQHKRGNDGRVSLIKQRES TLGIMYRYVLEPLVLTIILSLFV KLHNVREDIVNDITAEHISIWPS SIPKKQMSSRTFMSQEETVCRA AHTPSLPEEKWVEQLIYALVVA AARIMAMWGPNAAWLVFLAA AGPPPLTPPHSPP/PPPPPPALGR WMGPPLRDSASGLPRPPPGRISE DSGAWACGPALCPRPAIPSPAP ALRVPEALRLWGTCSV
25340	55708	A	25480	1	380	FTSPKTARNWGWLMQVRNQR LVLGKAGGKKGSPLEQRGGNG HHGGTRLICALVLVLVS\MRPLAT FAEPQTETCTVAPRERQNCGFP/ GVSRPPQCANKGCCFDDTVRG VPWCFYPNTIDVPPEEECEF
25341	55709	A	25481	3	2367	
25342	55710	A	25482	2	1230	WRRSRRRRPPAPQAGGGDFRA GISPPTGKKSLGLMEPQGNHYR CRCLQVAGSQAWARCVSMPEL VVQKVVGHP/LVLLSVVDHFNR IGKVGIQKCVIGLFWGSWQKK VLDVLNSFAVPFDEDDKDNSM WFLDHDYLENMYGMFKKVNA RERIVGWYHTGLKIHKNGITIN ELMKRYYPNSVLIIIDVNPKDL GLPTEAYISVEEIQDDGTPTLKT FEHVTSEIGAESYLEKVATGKL RINHQIIYELQDVFNLLPDVSLQ EPIKAFYLRTNDQMVVVYLASL IHSVGLTDPFC\VALHNLINNKI ANQDGDKKEGQEKKES/KKDR KADKGKDKDKEKSDVKKEQK NHCLKEKYRFRQDSLPDDPRVL GLELTPPVARQYSPQDLSEIPRH ADFRCDPAHFQLWWSQGETPS

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25343	55711	A	25483	3	1042	DRYCCRCLRVAGSQAWRAGC VAMPELAVQKVVVHPLVLLSV VDHFNRIGKVGNQKRVVGVLL GSWQKKVLDVSNSFAVPFDED DKDDSVWFLDHDYLENMYGM FKKVNARERIVGWYHTGPKLH KNDIAINELMKRYCPNSVLVIID VKPKDLGLPTEAYISVEEVHDD GTPTSKTFEHVTSEIGAEEAEEV GVEHLLPDIKDTTVGTLSQRITN HVHGLKGLNSKLLDIRSYLEKV VTGKLPINHQIIYQLQDVFNLL PDVSLQEFVKGFYLKTNDQMV VVYLASLIRSVVALHNLINNKI ANRDAEKKEGQEKEESKKDRK EDKEKDKDKEKSDVKKEEKKE
25344	55712	A	25484	257	1566	GLEHLCNPRWPLLFLRAMDST VPSALELPQRLALNPRESPRSPE EEEPHLLS/SLAAVQTLANVIRP CYGPHGRQKFLVTMKGETVCT GCATAILRALELEHPAAWLLRE AAQTQAENSGDGTAFVVLLTE ALLEQAEQLLKFGLPRPQLR/EA YATATA/EEKQVGQL/AAAGIN VAVVLGEVDEETLTLADKYGI VVIQARSRMEIIYLSEVLDTPLL PRLLPPQRPGKCQRVYRQELGD GLAVVFEWECTGTPALTVVLR GATTQGLRSAEQAVYHSIDAYF QPCQDPRLIPGAGATEMALAK MLSDKGSRLEGPNGPAFLAFAR ALKYLPKTLAENAGLAVSDVV AEMSGVHQGGNLLMGVGAEGI INVAQEGVWDTLIVKAQGFRA VAEVVLQLVTVDEIVVAKKSPT HQQIWNPDSKKTKKRPPPVEK

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25345	55713	A	25485	145	1918	PLEYFQRSVSGVPQLLFLEHLC NPRWPLLSLRAMDSTVPSALEL PQRLALNPRESPRSPEEEEPHLL SSLAAVQTLASVIRPCYGPHGR QKFLVTMKGETVCTGCATAILR ALELEHPAAWLLREAGQTQAE NSGDGTAFVVLLTEALLEQAEQ LLKAGLPRPQLREAYATATAEV LATLPSLAIQSLGPLEDPSWALH SVMNTHTLSPMDHLTKLVAHA CWAIKELDGSFKPERVGVCALP GGTLEDSCLLPGLAISGKLCGQ MATVLSGARVALFACPFGPAH PNAPATARLSSPADLAQFSKGS DQLLEKQVGQLAAAGINVAVV LGEVDEETLTLADKYGIVVIQA RSWMEIIYLSEVLDTPLLPRLLP PQRPGKCQRVYRQELGDGLAV VFEWECTGTPALTVVLRGATT QGLRSAEQAVYHGIDAYFQLC QDPRLIPGAGATEMALAKMLS DKGSRLEGPSGPAFLAFAWAL KYLPKTLAENAGLAVSDVMAE MSGVHQGGNLLMGVGTEGIIN VAQEGVWDTLIVKAQGFRAVA EVVLQLVTVDEIVVAKKSPTHQ EIWNPDSKKAK\KHPPPVETKKI
25346	55714	B	25486	1	642	
25347	55715	A	25487	3	395	FLPVNLTHDWQGSSALATLERP LSQVRLKRFVGTLIAFMVSAIVI LATASMAVASITESVQTAAFID NMARNVSNKLLLQQGIDQKIL ALLQSLEAALEYVGEQQDALA FQQQ*NCNWGHKHICIISLPWN
25348	55716	A	25488	3	358	HEPMCGETHQALQGAMEKLW SRFMELMQE/KKVDLKERVEEL EHCCI*LSGERQTPSGSGKPGHG KESCTLVRGAPASESCPPAGEYI ALYQSQRAVRKEEECISRLAQD KGEVKVKLLE
25349	55717	A	25489	1	250	VQCGGIPPGQNNKEEMEVLPEP PPPINRKKDKSYATAMGPFLRQ EALSGELLACLVIQD*QGNWV YKPISFNIYKKLRKSIRG
25350	55718	A	25490	1	702	
25351	55719	A	25491	1	252	
25352	55720	A	25492	1	122	LAPLVTYFSSLSLGFFNLKGKL APSSWRC*GLNEIIRGKH
25353	55721	A	25493	3	505	

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25354	55722	A	25494	1	3345	MRVGFRDIVGSLSEYSFGCPVN YEVFHSVWITILCCLMANDRKP QFLYFFQFFSFHGGRNLMSSFH PGNGHNDSRRSVFYANEKWEF LDPTPKDLEESIVQEEKKEPTPE GNKVSQRLKNLPHTSLKAKQL LQTSSTNRGTVITATRLAFDLRT QSTKCSHPASGSSGHSTDFQLE GEWGLWDLGTKGFKLPYSLSI DIDNVKSPHFPHELKTLTVSLGS NRRMGLEKKECHQKQGALREQ LQVHIQNVEILVSE
25355	55723	A	25495	296	1350	TLWLQGEQPSTQEIHEKV/LNE AMGAMMYHTIILTREDLEKFK APRVIVQIGSGYDNVDIKAASE LGIAVCNIPSAAVEETPDSTICHI LNLYQRNTWLYQALRGQAVA VRAKAFGFSVIFYDPYLQDGIE RSLGVQRDLLYQSDCVSLHCN LNEHNHHLINDFTIKQMRQGAF LVNAPHGGLVDKKALAQALKE GRIRGAALYVRESEPFSFAQGP LKDAPNLICTPHTAWYSKQASL EMREAAATEIRRAITGHIPESLR NCVNKEFSVTSAPWSVIDQQAI HPELNGATYRYPPGIVGVAPGG LPAAVEGIIPGGIPVTHNLPTVA HPSQAPSPNQPTKHGDNREHSN
25356	55724	A	25496	694	1185	PKPFKEGTIRGAALDMHESEPF SFAQGPLKNAPNLICTPHTAWY SEQASLEMREAAATEIRRAITG CIPESLRNCVNKEFFVTSAPWS VIDQQAIHPELNGATYRYPPGV VGVAPGGLSAAMEGIIPGGIPV THNLPTVAHPSQAPSPNQPTK* MK*KQMGEVA*GAARIRGETL GLNGFGCTGQA/VAVRAKAFG FSVIFYDPYLQDVVERSLGVQR VYTLQDLLYQSDCVPLHCNVN EHNNHLINDFTIKQMRQGAFLP PKPFKEGTIRGAALDMHESEPF SFAQGPLKNAPNLICTPHTAWY SEQASLEMREAAATEIRRAITG CIPESLRNCVNKEFFVTSAPWS VIDQQAIHPELNGATYRYPPGV VGVAPGGLSAAMEGIIPGGIPV THNLPTVAHPSQAPSPNQPTKH

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25357	55725	A	25497	290	1251	PFMLYVSISTLYIAFCHILNLYR RNTWLYQALWEGTRVQSVEQ MGEVA*GAARIRGETLGLNGF GCTGQA/VAVRAKAFGFSVIFY DPYLQDVVERSLGVQRVYTLQ DLLYQSDCVPLHCNVNEHNNH LINDFTIKQMRQGAFLVNAARG GLVDEKALAQALKEGTIRGAA LDMHESEPFSFAQGPLKNAPNL ICTPHTAWYSEQASLEMREAA ATEIRRAITGCIPESLRNCVNKE FFVTSAPWSVIDQQAIHPELNG ATYRYPPGVVGVAPGGLSAAM EGIIPGGIPVTHNLPTVAIIPSQA PSPNQPTKHVDNREHPNEQ
25358	55726	A	25498	1	1538	MLLQKTQFEYAFKKKRKLEES KKRGAGPASSDPRWRGSSQTA PHASEVSGAPLGRSCETTRDTG VGPSPRQWLGAGAGTWQHRA RAASTPSSRGLRALQTWGGGE VMNGPLH\PPPPRVALLD/SRNC TVEMPIPKDLATMAFCDTHSTQ EIHEKILHEALGAMRYHTITLA RADLEKFKALGVIVRIGSGYDN VNIKAACELEIAVCNIPSAAVEE TANSTICHILSLYRRNTWLCQA WARKHVCYSMGQIREVALGG AHIGGETQG\LIGFGSTGQAVPV RAEAFGFSVIFYDPYLQDGIERS LGVQRMSQGAFLVNAARGALV DEKALAQALNNGKIR/GAALDV PQSELFSFAQG\SLEMREAAATE IRRTITGCIPESLRNCVNKEFFVT SAPWSVIDQQAIHPELNGATYR YLPGFVCVAPGGLPAATEGIIPG GIPVTHNLPTVAHPSQAPSPNQP TKHGDNPEHPNEQSRECRKVII QIHLRPRDSEKLMNSEKTNLTV FLADSGHMHY
25359	55727	A	25500	1	2595	
25360	55728	A	25501	561	1023	SGHDAYREQIQEYRVISLLLNP N\DHVNKCQSTNDAYPTGFRIA VYSSLIKLVDAINQLREGFERK AVEFQDILKMGRTQLQDAVPM TLGQEFRAFSILLKEEVKNIQRT AELLLEVNLGATAIGTGLNTPK EYSPLAVKKLALKSLAFVGNLF
25361	55729	A	25502	2	227	
25362	55730	A	25503	262	428	

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25363	55731	A	25504	389	2310	ATSGPPGRSLGSACTIWVLVWT GSIPIYSFHGKVEKYMCFHNMS DDTWSAKVFFPLEVFGFLLPMG IMGFCCSRSIHILLGRRDHTQD WVQQKACIYSIAASLAVFVVSF LPVHLGFFLQFLVRNSFIVECRA KQSISFFLQLSMCFSNVNCCLD VFCYYFVIKEFRMNIRAHRPSR ATEEVSKNLVAMKEILYGTNE KEPQTEAVAQLAQELYNSGLLS TLVADLQLIDFEASLGLHGLEQ AVDLALPIAQAQGEVLNNGKC MDQFPVDVYQGGAGTIYVNMS TNEVLANIGLGLMGHQKGEYQ YLNPNDHVNKCQSTNDAYPTG FRIAVYSSLIKLVDAINQLREGF ERKAVEFQDILKMGRTQLQDA VPMTLG\QEFRAFSILLKEEVKN IQRTAELLLEVNLGATAIGTGL NTPKEYSPLAVKKLAEVTGFPC VPAEDLIEATSDCGAYVMVQG ALK\RLAVKMSQI\CNDLRLLSS GPPG\SSIMPAKVNPVVPEVVN QVCFKVIGNDTTVTMAAEAGQ LQLNVMEPVIGQAMFESVHILT NACYNLLEKCINGITANKEVCE GVVYNSIGIVTYLNPFIGHHNG DIVGKICAETGKSVREVVLERG LLTEAELDDIFSVQNLMHPAYK
25364	55732	A	25505	133	375	
25365	55733	A	25506	3	505	ARGREGVSRRERPLLSARRLGA EWDSAGAETASGLQVPRLGGS WPQTSVFSAAVKARGCRIATLP MDLIGFGYAALVTFGSIFGYKR RGGVPSLIAGLFVGCLAGYGAY RV\SNDKRECKKCHWFTAFLPG LPSMGVRFKRSKKIM\PAGLVA GL\SLM\MILRLVLLLL
25366	55734	A	25507	244	696	

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25367	55735	A	25508	1	1442	MGQLHQAQASADIATSRLQQT SLTDVTRHQQFFSTYNTDDFIQ FTATYREQTRTRRQRQYAVNH VTFFFGKCTFRDRHRHRVIGIVL NIGLTFPAHQTQDGIGSTRSQR QSRLVANKVATRNLVKHFDDD REANRGIQEAQTEHHHRGVLV NESRQRFGCQQHNRHRNHYRR HHHRQMVNHPYCSNYRIQRED GVKDDNLCDDHPETGIQLYASL LLQVFFFAANIYGWYAWSRQT SQNEAELKIRWLPLPKALSWLA VCVVSIGLMTVFINPVFAFLTR VAVMIMQALGLLQGVMPELQA DAFPVWDSCMMVLSIVAMILM TRKYVENWLLWVIINVISVVIF ALQGVYAMSLEYIILTFIALNGS RMWINSALIHQVVLDLIQQGIVI VWRDHLHMQRLHRLLAYHPC MYLVHIADFRDFPAHTRLQVQ RFPAIPVHLQVIHSRYLSTVATR YAESEATPVSGALGLLCPTLPIV
25368	55736	A	25509	133	375	
25369	55737	A	25510	2	471	AFAQRETAGRRVGQRWCGDCF RTPGTALGGSWPQTSVFSAAV KARGCRIATLPMDLIGFGYAAL VTFGSIFGYKRRGGVPSLIAGLF VGCLAGYGAYRV\SNDKRECK KCHWFTAFLPGLPSMGVRFKRS KKIM\PAGLVAGL\SLM\MILRL VLLLL
25370	55738	A	25511	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQQRLLARAEKKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGVPYCIIKGKAR LGRLVHRKTCTTVAFT
25371	55739	A	25512	59	882	SRLKNASIFVASPSGKKAKGKK VAP/APAVVKKQEVKKVVNPLF EKRPKNFDIGQDIQPKRDLTSFV KWPPLYQRQRAILCKWLKVPP EINQFTQALDHQTAALLLQLAH KYRSETKQEKKQRLLALAKKK AAGKGGIPTKRPPVLRAGVNTI TTLLENKKAQPVVIAHDVDPIE LVVFLPALCHKMRVPYCIIKGE ARLGRLVHRKTCTTVAFIQVNS EDKGALAKLVGAIRTDYNDRY NEIRRHWGGNVLGPKSVACIG KLEKAKAQELATKLG

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25372	55740	A	25513	1	833	GTRPKMPKGKKAKGKKVAPAP AVVKKQEAKKVVNPLFEKRPK NFGIGQDIQPKRDLTRFVKWPR YIRLQRQRAILYKRLKVPPAINQ FTQALDRQTATQLLKLAHKYR PETKHEKKQRLLARAEKKAAG KG\DVP\TKRPPV\LRAGVNTFT PL\VENKKAQLVVIAH\DVDPM RGWLSFLPAL\CRKMGVPYCIIK GK\ARLGRLV\HRKTCTTV\AFT QVNSESQRRLWAKLVEAIRTN YND\RYDEIRRHWGGNDLRPK\ SVARI\AKLEKAKAK\ELATKLG
25373	55741	A	25514	1	1176	MEKELVDHTGLFLSAHASEAL ALKLMIYSEVAHKLRAVRSQH PDMGVSLPLTPANSCPKTIERM RRSRELEREKDQSIETDHLPWA FGSTFLKTPLSCKTLMKYICYA FIINLSFVKGVSAVTLMMSEES NMQMQFSVSITSGFGPFKSHIIA AIPNAERKESQGFKMAPAPAVI KKQEAKEVVNPLFEKRLKNFGI GQDIQPQRDLTRFVKWPHYIRL QRQRAILS\AHKYRPETKQEKK QRLLAQAKKKATSK/EDIPTKR PPVLRAGVNMVTTLVENKKAQ LVMTAHDVDPIELAVFCLPAPC CKKGVPYCIIKGKARLGHLVHR KTCTTVVFTKVNSEDKGALAK LVEAIRTNYDRYDEIHCHWGG NVLGLKSVAHIIKLEKAKVKEL
25374	55742	A	25515	2	524	
25375	55743	A	25516	144	412	AGSCPFAAGPGPLGSGRCFVLIR FILIQNRAGKTRLAKW\YMQFD DDEKQKLI\EEVHAVVTVRDAK HTNFVGVSGTFKIILPPLWLASN
25376	55744	A	25517	38	476	
25377	55745	A	25518	235	892	RSRVGTNRLFGETYPRASPGPQ STALLTAYKKMTDLVAVWDV ALSDGVHKIEFEHGTTSGK/REV VYVDGKEEIRKEWMFKLVGKE TFYVGAAKTKS/ATINIDAISGF AYEYT\LEINGKSLKK\YMEDRF KNPPILWVLHM\DG\ENFRIVLE KDAMDVWCNGKKLETARDFC KMSDTISDDTKVDEQERALSRT PEDKWNFRPAVPMRGERGSPS HCGQAH

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25378	55746	A	25519	1	1233	MQLKFPGRQKIHISKKWGFTKF NADEFEDMVAEKRLIPDGCGV KYIPNRGPLDKCHHGKCVATG TSYMCKCAEGYGGDLCDNKN DSANACSAFKCHHGQCHISDQ GEPYCLCQPGFSGEHCQQGLLG GVREMLRCKVRSNIVTMKAKL SFRICMTLTILANMWPRPILGG VDQIPIKPKSKVLYLGAASGTT VSHVSDIIGPDGLVYAVEFSHR AGRDLVNVAKKRTNIIPVLEDA RHP/HQPDQ\ARSVALNAHTFLR NGGHFLISIKANCIDSTASAEAV FASEVRKLQQENLKPQEQLTLE PYERDHAVVDYSSSSATEQRRT ENDSDKLTEVGFRKLVINFSKL KEDVRTHHKEVKNLEKRLDEW LTRINSVEKTLNDLMEAENHGT KKYVTQAQASVAYLIKWKKG
25379	55747	A	25520	78	978	AAGHSAKKSCLSLLPAWSFPLG STRAQWHVRRLQARISGGGRH RCGRRGQ\GKTRRRMGPMVVS VEPHRHEGVFIYRGAEDALVTL NMVPGQSVYGERRVTVTEGGV KQEYRTWNPFRSKLAAAILGG VDQIHIKPKSKVLYLGAASGTT VSHVSDIIGPDGLVYAVEFSHR AGRDLVNVAKKRTNIIPVLEDA RHPLKYRMLIGMVDVIFADVA QPDQSRIVALNAHTFLRNGGHF LISIKANCIDSTASA\EAVFASEG EKLQQENLKPQEQLTLEPYERD HACV\VGVYRPLPKSSSK
25380	55748	A	25521	230	314	QMPGNNPAFSA*CDAGASYQA YVNSAIY
25381	55749	A	25522	1360	1848	RFRALV/TEGFSLRELFPVATVL VASST\VTKRFIFLLAAD\VRLA LRRSI\THPFVRKQELTVYTLNN ELENLLTNVVNQAQQGGKVML DSVPVDPNMLNQFQSTMPQVK EQMKAAGKDPVLLVPPQLRPL LARYARLFAPGLHVLSYNEVPD ELELKIMGALM

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25382	55750	A	25523	91	1184	AAACSPPPPARLTYGSETLRGG DCSKMAAGCCGVKKQKLSSSP PSGSGGGGGASSSSHCSGESQC RAGELGLGGAGTRLNGLGGLT GGGSGSGCTLSPPQGCGGGGG GIALSPPPSCGVGTL\LSTPAAA TSSSPSSSS/APASSSSPGSRK\M VVSTE\MC\CFCFDVLYCHLYGI \QQP\RPPRFTNEPYPLFVTWK\G RDKRLRGCIGTFSAMNLHSGLR EYTLTSALKDSRFPPMTRDELP RLFCSVSLLTNFEDVCDYLDWE VGVH\GIRIEIHQCKKASKR\TA TYLPEV\AKEQGWDHIQTIDSLL RKGGYKAPITNEFRKTIKLTRY RSEKMTLSYAEYLAHRQHHHF QNGIGDPLPAYNHYS
25383	55751	A	25524	3	154	
25384	55752	A	25525	575	1707	TALLLTQSLFGGLFTQTHMKFG AVTRI*NRKTGNSKKQSTSPPPK ERSSSPATEKSWMENDFDELRE EGFRRSNYSELREDIQTKGKEV ENFERNLEECITRITNTEKCLKE LMELKTKARELCEECRSLRSRC DQLEDCLLKKLHSHQANPEFDL ITEHLTLCIRISIQIKAYLSLSKA QSSLSHRPPTYLAYLFNGFRLF KNLKAYLHPGEINSFIAHTKPV WWSLHTDAHEIWCRDSDLKLV PTLPLIPLEAALRNITHSLSIPPP KNFRRPNTSTLFCVIFLINIRRQE YQASEPKPSHRIPCDLQRIKYLG IQLTRDVKDLFKENYKPLRNEI KEDTNKWKNIPCSWVGRINIVK MAILPKPLLVIPRQTGSGMDPQ QTSGDLQKCLTVLRKTNKQKAI ASTSRKRMTMQKLHLKEKLINS KDQRTNDKNHMIISIDAEKAFN KTEHRFMLKTLNKLEINSRWIK DLNVKPKTIKTLEENLGNTIQDI VMDKDFMTKTPKAMATKAKI DKWDLIKLKSFCTAKETIIRVY RQPTERESIFVIYPSDKGLISRIY KELAIPGKGNSSNVSKDSKMSK HQKMQGENKHD

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25385	55753	A	25526	110	569	TALLLTQSLFGGLFTRTRMKFG AMTRIG\DLPWEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGCQTMQGCLPWSFTLSGKSR FSGEGANHHGHRASGNSHSGS
25386	55754	A	25527	2	464	LFGGLFTRRRMKFGAVTRIR\DF PWEINPLSSCSLL/CEKDPRTTS GPQTDQPSKHLTNLKSASTPPP YNPFITSPPHTRSGLQFRSTSSPP APAQQFTLKKVAEAKGIVKVN APFSLSDLSQISVRLGSFIKYEKS SPVHGSFGSNPETLYSPRP
25387	55755	A	25528	162	206	
25388	55756	A	25529	74	446	TAMLLTQSLFGGLFTWTRMKF GAVTRIG\DLPWEINPLYSCSLL SRFKKIKACYHSPATSWPFKTY KLSLQLPHFTCPKTRQALQVSS GAVPYQPNCFAYPPCGAQPVPS FVLNTFLHNSLCRA
25389	55757	A	25530	66	311	FGAVTRIG\DLPWEINPLSSCSLL REKEPPTTSGPQTNQAKKHLTN FKSGACYTCRKSGHWAKECPQ PGIPPKPRPICVGPH
25390	55758	A	25531	728	825	MKFGAVTRIG\DLPWEINPRSSC SLLHEKDPPM
25391	55759	A	25532	291	311	TALLLTQSLFGGLFTQTHMKFG AVTRI*NKKNNTK
25392	55760	A	25533	1	1056	
25393	55761	A	25534	245	487	TALLLTQSLFGGLFTQTRMKFG AVTRIG\DHPWEINPLSSCSLFQ EKDPPTT/SGPQTDQPKKHLTNF KSTSFVFSSCIPPP

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25394	55762	A	25535	818	2391	TALLLTQSLFGGLFTQTRMKFG AVTRIG\DIPWEINPPSSCSLFLP/ RLPLLHFPGAGPSTPQPLL/HSPS AASPAFLGQGQDLINLVFKVYN NRKKLQFLASTVTQTPATSPAH KNFQTPEPQQPGVPPEPPSPGAC YKCQKSGHQAKECPQLRIPHLS YAWTFNDNPLYVQEDNRRFVS QETGNLYIAKVEPSDVGNYTCF ITNKEAQRSVQGPPTPLVQRTD GVMGEYEPKIEVRFPETIQAAK DSSVKLECFALGKIDDSIREKG AIRIKPSSILMRCNCLVQSPILVG EGWTGARCQGKSSTANPKLSL KSRTSNKKMKAFMSALQATFE EETLQRVNSFFMHNVLDNCLLP NSGTCLFETAPPEWEQKIQNTH LSIYDNLLWECKASGKPNPWY TWLKNGERLNPEERIQIENGTLI ITMLNVSDSGVYQCAAENKYQI IYANAELRVLGSQLVHFRENGT CLSDEVIRDSDFMSGMTVVHAF TSGSQGTTTENQDELQIKFISAR HSQATEGINSTSAKFD
25395	55763	A	25536	425	749	IASLLTQSLFGGLFTWTHMKFG AVTRT/RGDLPWEINPLSSCSLL HEKDPPTTSGPQTDQPKKHLTN FKSAQLKASGK/DLQKPYQHFQ TLQQLLPLQWAPCYGPSSVSI

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25396	55764	A	25537	2	2204	IDMIFTPGPPSTPKHKKSQKGSA FTFPSQQSPRNEPYVARPSTSEI EDQSMMGKFVKVERQVQDMG KKLDFLVDMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSDLKTIICNYSETGPPEPPYSF HQVTIDKVSPYGFFAHDPVNLP RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRRSITRDSDTP LSLMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTDPFTPSGSMPLSST GDGISDSTVPLFLSSEILQKQVG QSITSMLGFLSRGPSMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDFT ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNESDCIFICVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIG\DLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPTFLGQGQVPLNPF SFTLSGKSCFPRRQEPPNRLFPH PNLLSLCPNPLFLCPNPFSTFLE GKNHHPHPFSVSQVFSLGLPPS LWEHSPMAHRLRVQPRQQPPDI HKQVISLQSGHSLLVKSQSWSQ DPIKFQLPHHHKNTASVCINPSV
25397	55765	A	25538	110	542	TALLLTQSLFGGLFTRTRMKFG AMTRIG\DLPWEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGCQTMQGCLPWSFTLSGKSR FSGEGASCSLPG
25398	55766	A	25539	1	781	MPLQPLATPFTSPGSPSVAQVT TNTGEPGFAQQEYAETPQTTAR PPHPHPALRALQASVHQTPRLG DCLGSSESATALHGSGEPNKLA PPGRPTERGGLFKCSVPLRTVR GCRAGLRGTETVPSSLQRQPAG DVGWINNKSTTALDRTPTDTQ RTRRPRPPKQKQRGRALKERPR DSDSAREGPLKAVAGLFGGLFT RTCMKFGAVTRIG\DLPWEINPL SSCSLLHEKDPPTTSGPQTDQPK KHLTNFKSDLLSLATED

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25399	55767	A	25540	1571	1781	TALLLTQSLFGGLFTRTRMKFG AVTRIG\DLPWEINPSSSCSLLRE KDPPTTSGPQTDQPKKHLTNFK SA
25400	55768	A	25541	2150	3195	TVLLLTQSLFGGLFIWTRMKFG AVTRIG\DLPWEINPLSSCSLLH EKDPPTTSGPQTDQPKEHLTNF KSDED
25401	55769	A	25542	4688	5149	TAMLLTQSLFGGLFTRTRMKFG AVTR/IRGTDLPWE\INPLSSCSL LREKDPPMTSGPQTDQPKKHL TNFKSGACYTCWKSGHWAKER PQPGIPPKPRPICVGPHLKIRTCS THLGQATPRAPGTLAQGSLTDS FPDLLGLAAEDSHCLIASEAP
25402	55770	A	25543	1	433	MAAFPAALNRPTRARARRRRIS AHSAASAAAAVVVAGTARGM VPGSEGP\CRA\GDEVADWEIVI EGTANLGPYFEGLRKHYLLPAI EYFNGGPPAETDFGGDYGGTQ YSLVVFNTVDCAPESYVQCHA PTSSAYEFVTWLDGIK
25403	55771	A	25544	1	235	
25404	55772	A	25545	1	301	
25405	55773	A	25546	2	438	
25406	55774	A	25547	1058	1494	KSVRLVVN/YLRTQKAVVRVSP EVPLQNILPVICAKCEVSPEHVV LLRDNIAGEELELSKSLNELGIK ELYAWDNRRVPSAVPMQGPWP AEHFLQVNEQPPAGSPSPCPSSS SSSSGLRGGMQTANGPACALTP TCAQTDCPCPTSH
25407	55775	A	25548	1	3965	RRFQPLPSAALRRCPPPARVGG RWVSAEKVNEGGSGGGGSQRL TRRARSTARVPAPGTMDAPRAS AAKPPTGRKMKARAPPPPGKA ATLHVHSDQKPPHDGALGSQQ NLVRMKEALRASTMDVTVVLP SGLEKRSVLNGSHAMMDLLVE LCLQNHLNPSHHALEIRSSETQ QPLSFKPNTLIGTLNVHTVFLKE KVPEEKVKPGPPKVPEKSVRLV VNYLRTQKAVVRVSPEVPLQNI LPVICAKCEVSPEHVVL
25408	55776	A	25549	1	388	

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25409	55777	A	25550	1	1748	MVLARVARRPAGSAEAQASLA GKAALPERARKMSSPGIDGDPK PPCLPRNGLVKLPGQPNGLGAA SITKGTPATKNRPCQPPPPPTLP PPSLAAPLSRAALAGGPCTPAG GPASALAPGHPAERPPLATDEK ILNGLFWYFSACEK\CVLAQVC KAWRRVLYQPKFWAGLTPVLH AKELYNVLPGGEKEFVNLQGF TARGFEGFCL\VGVSDLDICEFI DNYALSKKGVKAMSLKRSTIT DAGLEVMLE\QMQGVVRLELS GCNDF\TEAGLWSSLSARITSLS VSDCINVADDAIAAISQLLPNLA ELSLQAYHVTDTALAYFTARQ GHSTHTLRLLSCWEITNHGVVN VVHSLPNLTALSLSGCSKVTDD GVELVAENLRKLRSLDLSWCP RITDMALEYVACDLHRLEELVL DRCVRITDTGLSYLSTMSSLRSL YLRWCCQVQDFGLKHLLALGS LRLLSLAGETPVSALTLAVTTH PHLVHPPNLPGPCANSHPARTH SPGSEAEEEGGAARPSPPEPWA ARTEPPSDPAAGCPLLTTTGLS GLVQLQELEELELTNCPGATPE LFKYFSQHLPRCLVIE
25410	55778	A	25551	1	377	MRRLTRRLVLPVFGVLWI/DGA AVLLGNQEEVGGAD/WDLKCR PL/EVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTSGDNHTL/SRPSLR*RQRP*IP CIRSQHGNRKRIPRRRIFI
25411	55779	A	25552	222	287	
25412	55780	A	25553	2	918	GHCEVNRDWLQPLLHRVKEDY TRVVCPVIDIINLDTFTYIESASE LRGGFDWSLHFQWEQLSPEQK ARRLDPTEPIRTPIIAGGLFVIDK AWFDYLGKYDMDMDIWGGEN FEISFRVWMCGGSLEIVPCSRV GHVFRKKHPYVFPDGNANTIYI KNTKRTAEVWMDEYKQYYYA ARPFALERPFGNVESRLDLRKN LRCQSFKWYLENIYPELSIPKES SIQKGNIRQRQKCLGISKGRTTK KPQT*S*A\LCQGQRRRCQSPRV WGLSHYTQADSFQGELVALFSS FTFVSLGAPVVSCSFARMGD

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25413	55781	A	25554	84	2804	PRGSWRCRRDLKCRPLSHSDA DWDDLWDQFDERRYLNAKKW RVGDDPYKPVCFSTSGRVSGSP AIRAIPDTRHLRKKATSNSLSRQ QLASPLPRSSYCGVTPGPIAIGP LWTSGSLRTPNHIDTVFAPGLP QPWFHLNYLRAMPSLSSAPKCT LLVYCTDLPPTSIIITFHNEARST LLRTIRRPPAVSTSQMAMTAAA LTPAPLRTYSVHLSCRAHQLVP MPQRKKYDETWVREHTKHSKI SLFPSCRLHFSCLSRRRMAVGS GKFQVMGDLGEPFLRVRWLRI WTLGPDFHGSALNSVLNR\TPT HLIREIILVDDFSNDPDDCKQLI KLPKVKCLRNNERQGLVRSRIR GADIAQGTTLTFLDSHCEVNRD WLQPLLHRVKEDYTRVVCPVI DIINLDTFTYIESASELRGGFDW SLHFQWEQLSPEQKARRLDPTE PIRTPIIAGGLFVIDKAWFDYLG KYDMDMDIWGGENFEMMTVQ VLQPRRSEALICTWKVHHLTRE STALLIALVQAPFTGPQAKKLQ QSPCPAMLAPEYAPEASVLVCT VSLLTYTTLQSEISFRVWMCGG SLEIVPCSRVGHVFRKKHPYVF PDGNANTYIKNTKRTAEVWMD EYKQYYYAARPFALERPFGNV ESRLDLRKNLRCQSFKWYLENI YPELRYPSYLLELWLAESRGPQ LAWSGEETDNDQLDEGFYVYQ

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25414	55782	A	25555	1	2439	MPLKKKGDEPQMEKYIQERSM LAPPSCSDHRDTHSRCIPHIQRL FQCPLGPWFQGEQRNQARGEG GALHPLPVTAGTVALPGAAQPT PARGNVTESLQGATVKLVCKK TSFIFIYCQHPAQCLALACDHEC IDLCTHVASTSLCLRGYQGMKR TIERALTATLAQGTAVPPFPSDV PSQKDAAVRGKGDGSEWERTL TMKRSNLNSEKILPAILLLTEFP RHQSPCSFDKPHHPNTLGCWLP TVLETRGGTNGQSSGKREATLC PCPLLGLPISEEDCVPPALLLPPR G\LPPGLQLSWAPVPQFPPLGPS SLGIPA/LPLVLNLGCLPSLVCPP TSAHTSEVAPSLKSPAEPSPPAR LPRSHQPALSREMRHSDYSVSV HAICWDHDFYTLVTHYMNNTS PISSKRSSDKLNPHVLVVQDSM TILSLHNHLALAGQDMMVWEP RKTLQRRQQPDSSSHSPPPALV ECHPLEPEPLVAGIMYSFSGLQ GVGLRDRAVDETNKRNEKRTL EMSRVEALSSFENSEFGCPPSIN TREITGNSLEGNVKKGVSVPNC TAPGKRTEKKYSKIHEMVKHS GNCKRTDGIWEEYGWSWRLH MKKVFPGFMLVKGGEDAAPGT KEIKSVSGIFQRGKKKPRGRKE KNRKKRGFAFSKETNFVYLLIL VCLIGKVVVWLTSACAEKPKP HGEATCRHSGPSAPLNFQPTRV
25415	55783	A	25556	2	1178	AKCVEVCGKREPPSMSPLNQSA EGLPQEASNRSLNATETSEAWD PRTLQALKISLAVVLSVITLATV LSNAFVLTTILLTRKLHTPANYL IGSLATTDLLVSILVMPISIAYTI THTWNFGQILCDIWLSSDITCCT ASILHLCVIALDRYWAITDALE YSKRRTAGHAATMIAIVWAISI CISIPPLFWRQAKAQEEMSDCL VNTSQISYTIYSTCGAFYIPSVLL IILYGRIYRAARNRILNPPSLYG KRFTTAHLITGSAGSSLCSLNSS LHEGHSHSAGSPLFFNH\VKIKL VTVALKRKEDSAARERKATKIL GIILGAFIICWLPFFVVSLVLPIC RDSWWIHPALFDFFTWVGYLN SLINPIIYTVFNEEFRQAFQKIVP FRKAS
25416	55784	A	25557	3	146	

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25417	55785	A	25558	45	592	PSPPPPARAPSARTRRAPIPAAG QGRARPPRTVSRCGSAAMATKI DKEACRAAYNLVRDDGSAV1W VTIKYDGSTIVPGEQGAEYQHFI QQCTDDVRLFAFVRFTTGDAM SKRSKFALITWIGENVSELQRA KTGTDETLVKEVVQNFANEYVI SDRKELEEEFIKS\ELKKAVGAN YDAQTE
25418	55786	A	25559	249	1808	INGGTLTVTLSVTNQGAETLPF GTGWHPYFPLSPQTRIQAQASG YWLEREQWLAGEFCEQLPQEL DFNQPAPLPRQWVNNGFAGWN GQARIEQPQEGYAIIMETTPPAP CYFIFVSDPAFDKGYAFDFFCLE PMSHAPDDHHRPEGGDLIALAP GESTTSEMSLRAYNDTNRRSDK AFTPHPTCFPSNQNNSASPPTIT PDTATIAPVSHKAFAGNALRSII SDGKLTAGSVINNASAGAVPIP ASIIVCTIGISAAVGMTNKHPAT AIDTTHIMLLSTAPSAWGNNQT RAAPNTSLLAAYRFLIDSRDTE TDSRLDGLSDAFSVFRCHSIMN CVSVCPKGLNPTRAIGHIKSML LQLPPNVEKFAGAYLIQFALFQ PLTHNRLMFFGAFADFLHADQ TFPGQITAAVKGQFVRRRLRFF AIISPSRTLS/YHTP*PRR*PR*SN FVTGRDAGRGLYNRQ*KTS/PS SICSA*GANPVVHHAMTVKFA* WQPIMKISSTSFPSMRPLSHMK TINGLTTFVAW
25419	55787	B	25560	1	567	
25420	55788	A	25561	1	741	MLILISPAKTLDVQSPLTTTRYT LPELLDNSQQLIHEARKLTPPQI STLMRISDKLAGINAARFHDWQ PDFTPANARQAILAFKGDVYTG LQAETFSEDDFDFAQQHLRMLS /GLPYRLEMGIRLENA\RGKDLY QFWGDIITNKLNEALAAQGDN VVINLASDEYFKSVKPKKLNAE IIKPVFLDEKNGKFKIISFYAKK ARGLMSRFIIENRLTKPEQLTGF NSEGYFFDEDSSSNGELVFKRY EQR
25421	55789	A	25562	3	320	IGLVLPISVRKRHAASARCLVN RRPMPRLHGLPGIPMRPPSLPRV RHAGTVFRRHRKRGSPMAY*Y GHSDVVKHREALVADLCHKAA FQLCRGQRHCRPALWRHR

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25422	55790	A	25563	1600	1908	
25423	55791	A	25564	142	326	TRRAPSAISSRCCCNSHQTSKSS LVRTSSSLRSSSHLRTIA*CSSV HLPISCMQIRPSQAR
25424	55792	A	25565	1	1599	
25425	55793	A	25566	393	611	HSRAVCRFYPAKTSPFPVRRCR YRQFVPR*HQNE*AGRE*QPCSI ATVLPYRALPSLAHPRLSADQL PAAHL
25426	55794	A	25567	971	1628	
25427	55795	A	25568	3	1895	
25428	55796	C	25569	1	2505	
25429	55797	A	25570	1	3345	
25430	55798	A	25571	457	790	PSFRRRYRQVVVISVRKRHAAS ARCLVNRRPMPRLHGLPGIPMR PPSLPRVRHAGTVFRRHRKRGS PMAY*YGHSDVVKHREALVAD LCHKAAFQLCRGQRHCRPALW RHR
25431	55799	A	25572	1662	1767	
25432	55800	A	25573	3	603	RLRSLFFLPDKMKLKDCVMIKK IFALPVIEQISPVLSRRKLDELDL IVVDHPQPPSGDYTLHPLPPIIR ANRPNRFRINAGCTRTFTLSTPI NVFRHKILRTQEFPSLTHHAYSP LLVVINKAKFDGLSPEFQQALV SSAQEAGNYQRKLVAED/LAK NHRRHERSGRGS/LSPISTAKPL ATHWGIRFATCLLKMCRRELIC
25433	55801	A	25574	2271	2519	HRQLVIVFQQPLVSGFHEAELS LDDAKWVLHP\ARMLAFMYSM LMAVLFLRGCCFKVLTLPGRSA ISQSTSTSASSSRCGAPW
25434	55802	A	25575	931	1213	
25435	55803	A	25576	1	2767	MIAILSGLRCSIVANYIYAENNL FWLRLNNPKAIWCLRICTFATV IGGTLLSLPLMWQLADIIMACM AITNLTAILLLSPVVHTIASDYL RQRKLGVRPVFDPLRYPDIGRQ LSPDAPLTTTRYTLPELLDNSQ QLIHEARKLTPPQISTLMRISDK LAGINAARFHDWQPDFTPANA RQAILAFKGDVYTGLQAETFSE DDFDFAQQHLRMLSGLYGVLR PLDLMQPYRLEMGIRLENARG KDLY\QF\WGDII
25436	55804	A	25577	395	467	
25437	55805	A	25578	1	675	
25438	55806	A	25579	1	4014	

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25439	55807	A	25580	1802	2385	RKISAPALIKSRTG*EMASLPTS/ HDKQIEQALADVDVPIVGVGGS YHLAESYPPVHYIATDNYALVE SAFLHLKEKGVNRFAFYGLPES SGKRWATEREYAFRQLVAEEK YRGVVYQGLETAPENWQHAQ NRLADWLQTLPPQTGIIAVTDA RARHILQVCEHLHIPVPEKLCVI GVMNRRTVRSPFRESLKISP
25440	55808	A	25581	1	1568	MVKQLKLVSFLLRPGDSKQGY DKHSSLQVGLMIPVCSCIRFRKP SEQSFKFEEGTDAAFHGFWLW PCTMLNVTPIKGMMTVIYEFPV DSETTLQNYDIYFTNEELTDEQ KSLIEWYRDVFRPEDLRLVESV QKGLKSRGYRGQGRIMADSSG SGISEHAWCMSRGAQGRQFCK GAKMSQVLITGATGLVGGHLL RMLINEPKVNAIAAPTRRPLGD MPGVFNPHDPQLSDALAQVTD PIDIVFCCLGTTRREAGSKEAFI HADYTLVVDTALTGRRLGAQH MLVVSAMGANAHSPFFYNRVK GEMEEALIAQNWPKLTIARPSM LLGDRSKQRMNETLFAPLFRL LPGIILLEELNWKTWAERWNS MLGPRAVKVFFSLAFLPGTLEP AQILFPTQRQGKKAALLLGLW KLEIYSDNRRSPEVSTAWNSPP TGKLDNKQYMIMIPRKRETNTT TRGASNARLDPPSRKGYKGHY ETIGHALEHDKQSQGSYNVEHT IKRQTPRVRRCTSIIAGIYQELG
25441	55809	B	25582	1	1560	
25442	55810	A	25583	1	2115	
25443	55811	A	25584	3036	3957	RIYDAVSEPAEPVDCPRNPVCR FY*QYRDHRGKTVYDVASGDA LFISELG/PLPENVTWLSPEGEFQ KWN/GTAWVKDTEAEKLFRIRE AEETKNNLMQVASEHIAPLQD AADLEIATEEEISLLEAWKKYR VLNSRAMALILTPDLIRSNTACF CSSFVLAGQTAKAAADDGLFPP IFARVNKAGSPVAGLIIVGILMT IFQLSSISPNATKEFGLVSSVSVI FTLVPYLYTCAALLLLGHGHFG KARPAYLAVTTIAFLYCIWAVV GSGAKEVMWSFVTLMVITAMY ALNYNRLHKNPYPLDAPISKD
25444	55812	A	25585	1	2490	

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25445	55813	A	25586	368	761	LYCEACIMAFRMSEQPRTIKIY NLLAGTNEFIGEGDAYIPPHTGL PANSTDIAPPDIPAGFVAVFNSD ESSWHLVEDHRGKTVYDVASG DALFISELGPLPENVTWLSPEGE FQKCSGTTRVKNAKA*TLF
25446	55814	A	25587	1	809	MPVSSYERGHAEKRVVQECCG INLTSSANTILSDCERVNGYCVL CHTTRALVTGNHHRNAVYAET PSNSRINYIVSSHNAFRMSEQPR TIKVYNLLAGTNEFIGEGDAYIP PHTGLPANSTDIAPPDIPAGFVA VFNSDESSWHLVEDHRGKTVY DVASGNALFISELGSLPENVTW LSPEGEFQKWNGTAWVKDTEA EKLFRIREAEETKNNLMQVASE HIAPL\QDAADLEIATEEEISLLE AWKKYRVLLNRVDTSTAQDIE WPALP
25447	55815	A	25588	1	2301	
25448	55816	A	25589	718	1131	
25449	55817	A	25590	279	513	CRRIDTWQPIYQTCGRLMAVEL LTVVTHPLNPSQRLPPDRYFTEI TV/SHRMEVVKEQIDLLAQKAF SLAYLSPCESGL
25450	55818	A	25591	1	407	PQDNAKKLRPHQLSSDEGHTG MGGTAKDVGFVSMRTYSWISS ALPKRLGGGVMPIGATIATEEV FSVLLGNPFLHTTTFGGNPLAC AAALATINVLL\GRTYRLRLSK KAICCWTVSVNWRGNIPIWYR KRVVKGC
25451	55819	A	25592	1	2079	
25452	55820	B	25593	1	700	
25453	55821	A	25594	1427	1845	ACISGFSTETSASGRVSVITDAS LFRVLPRVCGMAVAATKRSGRI TTSEALCCANQLRRRPCVSPTR STPSWLSCAV*ICTSGTT*MKR VPNARHCWICSSLIPHSGLHPQP ITAKFAPIALSSSVTSPFSSVTFG *IN
25454	55822	A	25595	2	295	
25455	55823	A	25596	1	900	
25456	55824	A	25597	1	1422	

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25457	55825	A	25598	2	535	YGNREQRAVSSHTNTWVNRAL ARGWSSLGYRWWVSAWTPSR RFISQLMSRPVDASAAKVKRSA SVPCGSIPFGNCFSVRLRILSASC GCIILPVRFSSSSGSEIPSTISSGSI TLPLDLDIFWPSSSRIRPVM*TV WNGTCGLPFSSLMKCMVIMIM RAIQKKMMSKPDTITLVGWN
25458	55826	A	25599	442	1368	RRTMAAFACGVVRDASEVIRPS STLVPLVGEKHAKGLFGTIVDN FYLVALIFAMGTSLGLATPLVT ECMQWLFGIPHTLLGFI/LYNAI CVACGLQKGVRIASDVRSYLSF LMLGWVF\IVSGASFIMNYFTD SVGMLLMYLPRMLFYTDPIAK GGFPQGWTVFYWAWWVIYAI QMSIFLARISRGRTVRELCWIL WTVLGSNTLLLIDKNIINIPNLIE QYGVARAIIETWAALALNNGN MWGFFILWFIGPGTLVNAWQNI RAQFVHHILRRNGIADGFRHLA ALTIHGKAVGQYLTIRRFTLHR
25459	55827	A	25600	2468	3907	
25460	55828	A	25601	3	3738	YKTNYTDNSEYYANVGFNVKP VKRDGKMSVMSDPDTAIYPFPP KPTPLSIDEKAYYREKIKRLLTE RNAVMVAHYYTDPEIQQLAEE TGGCISDSLAMARFGAKDPASN LLVAGGGTCRSVVINAVFSYVT NVWGWAFEWYMVVMLFGWF WLVFGPYAKKRLGNEPPEFSTA SWIFMMFASCTSAAVLFWGSIE IYYYISTPPFGLEPNSTGAKELG LAYSLFHWGPLPWATYSFLSV AFAYFFFVRKMEVIRPS
25461	55829	A	25602	1331	1456	
25462	55830	A	25603	549	588	
25463	55831	A	25604	19	1629	

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25464	55832	A	25605	1	1995	MVGVRFALGLMWLTLIVAETIS ANSGIGYLAMNAREFLQTDVV VVAIILYALLGKLADVSAQLLE RLWLRWNPAYHLKEATLSAEQ AARIREMTVITSSLMMSLTVDE SDLSVHLVGRKINKREWAGNA SAWHDTPAVARDLSHGLSFAE QVVSEAHSAIVILDSRGNIQRFN RLCEDYTGLKEHDVIGQSVFKL FMSRREAAASRRNNRVFFRSGN AYEVENVPDPGVEQADDIILRIT ATAICGSDLHLYRGKIPQVKHG DIFGHEFMGEVVETGKDVKNL QKGDRVVIPFVIACGDCFFCRL QQYAACENTNAGKGAALNKK QIPAPAALFGYSHLYGGVPGGQ AEYVRVLKGMWGRLNDAQPG FRSSRPLRYGAGIMTLLNISGLS HHYAHGGFNGKHQHQAVLNN VSLTLKSGETVALLGRSGCGKS TLARLLVGLESPAQGNISWRGE PLAKLNRAQRKAFRRDIQMVF QDSIST\VNPQPNRLHIV/RFPLT RLNQYQPSFSTDLYHGTLKPAS LTMSGVVLLGRM/PRKTSQQV QWA\CIARTDKASMPTVYSESL FVEPLERVLYVAVILTQIIRGLR DTEIETINPDIAVHFALCFHGLG SIPTKGAEKSPFLTIHKVRVKPD IPSPVSIMAPCRAHPTCEALFNN STALHSPWFCDSL
25465	55833	A	25606	179	371	CVLQYTHWPACSTVA\HSRRW* NRRRLRLAVTKTGSLFSHRCAG ARLAFSKKLRCRDALPASRS
25466	55834	A	25607	544	983	SVQNPRVNWIHAALQRTGRGR RRHEQHGEDHFVNGAAGVHQ AANGLVNPRHQVFGAHQAKG DGENHRQRGAPDGDLQRDGHF GEVILPLAEIGREEVGGERRHV AAVFDQ/S*AGPFPRPATRRPTR RVQRPSSEARTSCAWVGRW
25467	55835	B	25608	1	1746	
25468	55836	A	25609	1	858	
25469	55837	A	25610	98	288	LCRNNGEPLARSGAAMGALLD REHSRHP\PDLEG\GSQQQVCDS GGSVTAANTSGGQQVKAQLEL

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25470	55838	A	25611	1934	2812	RPQTYSDAQPGFRSSRPLRYGA GIMTLLNISGLSHHYAHGGFNG KHQHQAGLNNVSLTLKSGETV ALLGRSGCGKSTLSRVLVGLES PAQGNISWRGEPLAKLNRAQR KAFRRDIQMVFQDSISAVNPRK TVREILREPMRHLLSLKKSEQL ARASEMLKAVDLDDSVLDKRP PQLSGGQLQRVCLARALAVEP KLLILDEAVSNLDLVLQAGVIR LLKKLQQQFGT\ASLFITHDLRL VERFCQRVMVMDNGQIVETQV VGEKLTFSSDAGRVLQNAVLP AFPVRRRTTEKV
25471	55839	A	25612	1	515	MLAVECRSLPFPPLVQPVRYTD VTVKDDYNPETEQYTLTISQRT PATPDQAEKQPLHIPFAIELYDN EGKVIPLQKGGHPVNSVLNVTQ AEQTFVFDNVYFQPVPALLCEF SAPVKLEYKWSDQQLTFLMRH ARNDFSRWDAAQSLLA/ILHQA ERRASSARSAAVSAGACG
25472	55840	A	25613	1	1053	
25473	55841	A	25614	1	1521	
25474	55842	A	25615	430	1120	QTASTFLKRGKCASRQSKLCGN RRRKRRQRISSYCLLRGTACSP AHQPDAFHQKRGNAGRHYAEC VLQYSSCSTRYS\PGR\TQLINLF EVADGKRLVDLPGYGYAEVPE EMKRKWQRALGEYLEKRQSLQ GLVVLMDIRHPLKDLDQQMIE WAVDSNIAVLVLLTKADKLAS GARKAQLNMVREAVLAFNGD VQVETFSSLKKQGVDKLRQKL DTWFSEMQPVEETQDGE
25475	55843	A	25616	407	1176	AYSTSLRVKICRKTSTLLLRSRV TQIRSNTKSTKRAAHCSLTASC PPRCSIHATTVTSTTPCLWRRIA TMLRALARLLLRICFSGRTLKIA CLLLLVAGATILIADR/AALYHA GKVKWLLVSGDNGRKNYDEA SGMQQALIAKGVPAKVIFCDY AGFSTLDSVVRAKKVFGENHIT IISQEFHNQRAIWLAKQYGIDAI GFNAPDLNMKHGFYTQLREKL VIAKGHGSLLTDLPVAKAGTM WAIEIDDVARHSRSHL
25476	55844	A	25617	3	168	NPFYSAMR\KSAGIRHILARHVE GASHMAEGYTRATAGNIGVCL GTSGRCCFRLCW
25477	55845	B	25618	169	1227	

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25478	55846	A	25619	489	740	AIARSCADYHPANFRHHRAAA RAGDDYLSRRAERQPGAKAGG SRLRAGKRPCSAFRYW*CAAG E*SVGEKIMAGDVISPKRRL
25479	55847	A	25620	146	475	
25480	55848	B	25621	38	191	
25481	55849	A	25622	662	4568	
25482	55850	A	25623	20	2661	AGHIHRPRYQHGVGTESTSIMS VASRSAERVFLTKFESWKNFPI NRGRNKMAKMRAVDAAMYV LKKEGI\TPAFG\VPGAA\INPFY SPMRKHG\GIRHILARHVEGAS HMAEGYTRATAGNIGVCLGTS GPAGTDMITALYSASADSIPILC ITGQAPRARLHKEDFQAVDIEAI AKPVSKMAVTVREAALVPRVL QQAFHLMRSGRPGPVLVDLPF DVQVAEIEFDPDMYEPLPVYKP AASRMQIEKAVEMLIQAERPVI VAGGGVINADAAALLQQFAEL TSVPVIPTLMGWGCIPDDHELM AGMVGLQTGHRYEKYTEGRKI VHIDIEPTQIGRVLCPDLGIVSD AKAALTLLVEVAQEMQKAGRL PCRKEWVADCQQRKRTLLRKT HFDNVPVKPQRVYEEMNKAFG RDVCYVTTIGLSQIAAAQMLHV FKDRHWINCGQAGPLGWTIPA ALGVCAADPKRNVVAISGDFD FQFLIEELAVGAQFNIPYIHVLV NRPAANGAQGSCHPDAPAVFR SSIFIRKSEEKLVVTMNELSASR ALPEETMPGRFELKPTLEKVLH APDNFLFMDPLPPMHRRGIIIAA IVLAVGFLLPSDDTPNAPVVTR EAQLDIQSQSQPPTEEQLRAQL VTPQNDPDQNLYRKASQKSSR KLPKRDLPHILTPFRAPMASVC AKRKGQVLHQQYSLKKYRYK
25483	55851	A	25624	1	570	
25484	55852	A	25625	312	873	APRSRVQAKIAASNTGELNALQ QLGFS\LVEGEVDLAL\PVNNA\ SDSGAVVA\QETDIPA*RQLASA AFAQSRFRAPWYAPDASSRFYA QWIENAVRGTFDHQCLILRAAS GDIRGYVSLRELNATDARIGLL AGRGAGAELMQTALNWAYAR GKTTLRVATQMGNTAALKRYI QSGANVESTAYWLYR

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25485	55853	A	25626	2	922	FSPPGLHDAGEAVFWRVNKSA NYGVLDKLARGYADLSKAESQ WDEMMRTAGSLKLGTIHASINS LFENITAAPADPILGLADLFRAD ERPGKINLGIGENPSCCRTSSSP VFDAAIWPAPVNNASDSGAVV AQETDIPALRQLASAAFAQSRF RAPWYAPDASSRFYAQWIENA VRGTFDHQCLILRAASGDIRGY VSLRELNATDARIGLLAGRGAG AELMQTALNWAYARGDHMI/R I*RTAGGGNRTRLYAVGNG*RQ TVWRWRFYPSLPAVAGATFWQ RQSVTDAVLHRFAGDGGAAAR YPAWR
25486	55854	A	25627	911	1441	AIPSISCFLLAIKALILSAIWLNA TPSRSKLEPSSKWIRSLRCPSPN RCAAASSFNISCQWFLSEYGPP NQVASGKTSPFVIVFKQPRYRA VTKPNCRLMMRNGCSTLARML PVMYAMLMPVLFLRGCCFKVL TLPGRSAISQSTSTSASSSRCGA PW*PASAETNCSSPCSRLPS
25487	55855	A	25628	1	1247	MERVLDNLLNNALRYCHSTVE TSLLLSGNRATLIVEDDGPGIAP ENREHIFEPFVRLDPSRDRSTGG CGLGLAIVHSIALAMGVNAQA DFMKLTGADEQIAAYCFKMPF VFHLIEEVSRNFGYALCLINIDH KAALNITQRTAANILLDGQMQ HAVDQAFTQRTARQGSTFVQY ARLARKLATANICWSYFVPVR ASIEPLTWENAFFGVNSAIVRIT SEAPLLTPDALAPWSRVQAKIA ASNTGELDALQQLGFSLVEGEV DLALPVNNASDSGVAVVAQETD IPALRQLASAAFAQSRFRAPWY APDASSRFYAQWIENAVRGTFD HQCLILRAASGDIRGYVSLREL NATDARIGLLAGRGAGAELMQ TALNWAYARGKTTLRVATQM GYTAALKRYIQSGANVESTAY WLYR
25488	55856	A	25629	1	1925	
25489	55857	A	25630	402	664	TARRLLFFRD/RTARVAVPNAA VVLPFPLPVKTMIIPRSLGRRRS GGICRPLGYLVAMDAIDGLQN ADNSNGESRIATSSFRSRSARR

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25490	55858	A	25631	920	1237	IARPGCHLSHCHSEPSGRLSK*P FSCNSLKTGDF*PI*GLIQTQIFS PFAFRRRIIPSGSGKVSGSHSKS HHWKAFIQKQSKWKTCSGRLR SAIPSIKLFTVASS
25491	55859	A	25632	1	1341	MVHRFGIRVRFVALGFYQDVIL PVRAHRHEWGHYVHLCASIQR QIDVSFARDATSHSSCPVTGVR FWGYPFAANKVVIAGFELEGET MTRPGLICAEGGLLVMIVSLRS ELYDSYHEFTRQRVTEIVEKAA NHLPAVVEMMTLHRCAINRHN FVRRVGPAGISTFFASSPDGVN AGFSTFRVVFTCQRSRPLQRHS HADVQTATLLLNTVNLEQKQA NAILSGLSDMIPNSSPESAPEIQL LQSRMILGKTIAELNLRDIVEQK YFPIVGRGWARLTKEKPGELAI SWMHIP*TLSKNRPTPFS/DGLS DMIPNSSPESAPEIQLLQSRMIL GKTIAELNLRDIVEQKYFPIVGR GWARLTKEKPGELAISWMHIP QLNGQDQQLTLTVGENGHYTL EGEEFTVNGMVGQRLEKDGVA LTIADIKAKPGTQFVLSQRTELE AINALQETFTVSERSKESGMLE LTMTGDDPQLITRILNSIANNYL QQNIARQAAQDSQSLEFLQRQL PEVRSELDQRKKNSTFIASSAIR
25492	55860	A	25633	170	935	LTQEDTRINLIPMAVESLHLPTQ MLINGGETYAWRNWKRGGQY KSATLNTGQPHVRARELVDSD TLASDAARLTCRHGLALPALFT LIAVVTSLLSPQFIRQILWSRLT KTR*AGDQLDAYSTTEWSGSA TDTHGWGKRPLYTGR*RVHRQ WYGRPASGKRWRCADYRGH* GQTRNTVCPEPAYRTGSD
25493	55861	B	25634	42	755	

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25494	55862	A	25635	793	2127	RYCKGTVMDQIRLTHLRQLEA ESIHIIREVAAEYSNPVMLYSIG KDSSVMLHLARKAYYPGTLPFP LLHVDTGWKFREMYEFRDRTA KAYGCELLVHKNPEGVAMGIN PFVHGSAKHTDIMKTEGLKQA LNK/YTTSRAKERIYSFRDRFHR WDPKNQRPELWHNYNGQIN\K GESIRVFPLSNWTEQDIWQYIW LENIDIVPLYLAAERPVLERDG MLMMIDDNRIDLQPGEVIKKR MVRFRTLGCWPLTGAVESNAQ TLPEIIEEMLVSTTSERQGRVID RDQAGSMELKKRQLIELIINVH NLLKNGFGFQVKVNRIALLAIN VEFFFRLVQLAAHFSSGTLAQD KLCSWFGLNVRDSQRNAIFFQT LADHTIDGELFTFQCIVAVFPNL PIYSYATIYVSSSSIPISSEESPSIR FACSQTSRQPPVSDSRFCVSQV
25495	55863	A	25636	360	566	GAETMGDLLWVVGILLMCSLS TLVLVWLDPRLKS*RT*A*CGA LTSHQAINNGRNEKRKPIRESDP LKA
25496	55864	A	25637	1	312	LLRKSVSVIIKGTIKTIIGFMLLQ AGSGILTSTFKPVVAKMSEVYG INGAISDTYVMQDG*APELGLS PGRFLRHDTDFVLQLGIVMVRL AGDGSLNINAQANN
25497	55865	A	25638	517	796	PTARFGWVKGVDLPAD/CNRQ DRFAIDVRVQGS*\WGCVLPLF RVLLFVSCALLLVSVSCVLRLL FCCSS\LSLFLSGLGGGRSPKAG DVFRDRR
25498	55866	A	25639	47	411	AIKVRELSIKLKMC/YSLIKTLH G*KYRNFMVIGSMVFGKKAITH VAGVKRRTAVVVGFKVFDIQR SQFRIVVTGDLAQLLYRVIKVIT CGHFVRQHGIVLCAGVLHVGD RYQAHVKTLGGLI
25499	55867	A	25640	1	1488	
25500	55868	A	25641	2	298	CCICL/YSYAPIDVW/WG/WNTA GQVQAA*TLKAASSSIVTIPLRN TFIFNYSLSGLRRRRLIIRSRRHS THASNITLIAASTASRIGWFASA YHTRSNHGR
25501	55869	C	25642	1	2064	
25502	55870	B	25643	1	1116	

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25503	55871	A	25644	312	620	SACRCCLVVVPLFVCL/GSSLSL APTFPLLASFSSSRASRVVAFGL GSLRAGSALCLPCAAVVLALRS AGTCLEWWWWHSVVLPPETK RLPSTSLIPYPASVSI
25504	55872	A	25645	2	2237	
25505	55873	A	25646	692	6383	RMSRSSDYDQVRSRNALIRRHI EKMDASLHVGTKEFDISKVSEV DSVDDLLIDNAARYLLKDWKG VGELVNGVEVALEYTAERGIAL LKQNPELYWQILAEAASIAQVG GEVWIAPKFERNGLRLLANSEI GAASQLQTYHRVDPGRPCKLD LSGGMSQRVMIAMAIACRPKL LIADEPTTALDVTIQAQIIELLLE LQQKENMALVLITHDLALVAE AAHKIIVMYAGQVVETGDAHA IFHAPRHPYTQALLRA
25506	55874	A	25647	856	1467	
25507	55875	A	25648	1823	2014	SQEIALMQFRPRLTGASGSP*RP PHRTLLRSDQNAATIPQKRASA LIPLMRILPVRYGHLLLC
25508	55876	A	25649	1	218	
25509	55877	A	25650	2740	3293	IFAVNLILQCHVGGTHHQRFLL FAGNGDAGNQIRERFPNAGG/E LQSPDVALLLRPAFWRRPQSSA AAAHGE*SRGSVPEAPYTRRQF ALPAPPIKCAPLPERQRPSVPSR HLRLPACPGYKNRASSAKPSYS FLAQRQHLQRLSPLPQNQNLPQ RRRDQRQRAGAMSARVPDLISS SRSMRRTS
25510	55878	B	25651	1	1875	
25511	55879	B	25652	1	2981	

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25512	55880	A	25653	1	1649	MTFRNCVAVDLGASSGRVMLA RYERECRSLTLREIHRFNNGLH SQNGYVTWDVDSLESAIRLGL NKVCEEGIRIDSIGIDTWGVDFV LLDQQGQRVGLPVAYRDSRTN GLMAQAQQQLGKRDIYQRSGI QFLPFNTLYQLRALTEQQPELIP HIAHALLMPDYFSYRLTGKMN WEYTNATTTQLVNINSDDWDE SLLAWSGGQQSLVWVAEASGE WGVLACTLFAWNRNYFVLLFV GVFLSSFGSTANPQMFALAREH ADKTGREAVMFSSFLRAQVSL AWVIGPPLAYALAMGFSFTVM YLSAAVAFIVCGVMVWLFLPS MRKELPLATGTIEAPRRNRRDT LLLFVICTLMWGSNSLYIINMPL FIINELHLPEKLAGVMMGTAAG LEIPTMLIAGYFRQTSGPTAYGR SVGRIRRSRRIRQSCYYQRIFSL LACELANALERPENFCGMHFFN PVHRMPLVEIIRGEKSSDETIAK VVAWASKMGKTPIVVNDCPGF FVNRVLFPYFAGFSQLLR/ERRG FPQDRQSDGKTVWLADGPGIS AGRCGH
25513	55881	A	25654	1590	2855	RNLLGEAADPVSGPHSAIYRPD WPKSGDCACQGPIKGSANRPA VVPHVHGP\SEDLEVFLNVFGE LPQPLIDTQILAAFCGRPMSWG FASMVEEYSGVTLDKSESRTD WLARPLPERQWEYASPNVWY LLPITAKLMVETEASGWLPAAL DECRLMQMRRQEVVAPEDAW RDITNAWQLRTRQLACLQLLA DWRLRKARERDLAVNFVVREE HLWSVARYMPGSLGELDSLGL SGSEIRFHGKTLLALVEKAQTL PEDALPQPMLNLMDMPGYRKA FKAIKSLITDVSETHKISAELLAS RRQINQLLNWHWKLKPQNNLP ELISGWRGISAVKSSEAGLGAL SATSGFGKLQIQHQAFTLRTRT TDQHTLLAGTLFIAKILIPMVSF TFQYCCFAVPQATYCHRIAPIL GNGAMKPGRKIS

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25514	55882	A	25655	1	3315	MDELRLVLMTIIHIKLPPIRRAD GSFGNDLTTGAGFNDRKTVPR YARVHVYRCRKVICIFTKRIPFC LDVPAHRALVVMKGTLYGMP VVAAAFEFAFMGGSMGSVVGA RFVRAVEQALEDNCPLICFSAS GGARMQEALMSLMQMAKTSA ALAKMQERGLPYISVLTDPTM GGVSASFAMLGDLNIAEPKALI GFAGPRVIEQTVREKLPPGFQR SEFLIEKGAIDMIVRRPEMRLKL ASILAKLMNLPAPNPEA
25515	55883	A	25656	246	422	RHADTDLRR*ISDRFSPAPPADP ANGGR*TPRHAAKRRDPGTPV QPARKPSKPTRLLR
25516	55884	A	25657	884	1276	LVTRQLSPGNRCNVFAFSSAVE TSLTCQGWLSPVCAVCQAISSS HNASIQVRSPAASCGSPFCSKRP SALWWTSVSPFLSPRRRTSGAN AESVSAT*SKRRSSARRSASARS TLSGAALRSRTASNEWRS
25517	55885	A	25658	649	1427	LPLLGWSMSPRMTAQLACDAL QMALWRRKRPRNVIVIHTDRGG QSVQQFRALKRHITASRETERF YLDVQKQFPKVTAQKVIVSEA GASVYSASELAAQEFPDLDVSL RGAVSIARRLQDPLAELVKIDP KSIGVGQYQHDVSQTQLARKL DAVVEDCVNAVGVDLNTASVP LLTRVAGLTRMMAQNIVAWR DENGQFQNRQQLLKVSRLGPK AFEQCAGFLRINHGDNPLDAST VHPEAYPVVERILAATQQALKD LMGNSSELRNLKASFLDNEEN WPLLLDALIPVANTCEMILMPA CFGLADDKLWRWLNEKLPCSL MLLPTLPPSVLGIRLQNQLQRQ FVRQGGVWIECGDGGDTTTITI TQR**PAGRVYRSPGSLSGGGT HSGSNTAGTERSDG
25518	55886	A	25659	1	1878	
25519	55887	A	25660	1	4329	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25520	55888	A	25661	2514	4173	PTSCLPDDYVGHCRGVSAAHF AGSVSCVRLLSACARPLWRHL GLALLRVWCRTFLLLSALASVF CPCSVVWGRLLFSASLSVVVW GGVFLSPLGSLSPRGTARLGAA CRSRED/RRR*WRGIFNRDTFAS AVPASVNPDKPCAPAACIRFTS TSAY*VGCSDRNA/DAEASGEG WRRFGDATLSTGQFGGEAREE VILGLIGSQA\KTGGNTPKASAV RKITLVAWPALETGLTMLSM** IG*ETRVFSVFEPSSKSIVPSSRT VTFSSNASRRIAL*ISGSASFDSL IVFA*QPPSKLNTPSSSQPCSSSP IRRRFGSVERVVLPVPERPKNT ATSPFSPTLAEQCIEAIPSAVFA APVRVAASMIISGFCALASIRPS ASTRRPSASVFITSTFLPLR*VMI SPSLNALPLIRLSAQQRNSFTRL FSPRVMANASAPVTVAAPPMS DFIESINAVCLMQARVHWRFFI ASWVVIQPPAIPENVLNRVRLC AAPGTLCLTTFVSSSGDR*NAL CNRCNRPAPCFRSSAIRFATVLA ARRHDWVWPISPLIPRPSS

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25521	55889	A	25662	2221	4400	RGCVVSGKSSCSKTNLPSDDKR TGASCPLRDLFLRYLRAHALVT AEQLAHEFSLGIAIVEEQLQQLR EQGLVMNLQQDIWVSDEVFRR LRLRSLQAAREATRPVAATTYA RLLLERQGVLPATDGSPALFAS TSPGVYEGVDGVMRVIEQLAA SAINASLWESQEFVYGKPVYAV GENYSQGQYYLASFANKIWLSP QGVVDLHGFATNGLYYKSLLD KLKVSTHVFRVGTYKSAVEPFI RDDMSPAAREADSRWIGELWQ NYLNTVAANRQIPAEQVFPGA QGLLEGLTKTGGDTAKYALEN KLVDALASSAEIEKALTKEFGW SKTDKNYRAISYYDYALKTPA DTGDSIGVVFANGAIMDGEETQ GNVGGDTTAAQIRDARLDPKV KAIVLRVNSPGGSVTASEVIRA ELAAARAAGKPVVVSMGGMA ASGGYWISTPANYIVANPSTLT GSIGIFGVITTVENSLDSIGVHTD GVSTSPLADVSITRALPPEAQL MMQLSIENGYKRFITLVADARH STPEQ/IDKIAQGHVWT/GLGDF DDAVAKAAELAKVKQWHLEY YVDEPTFFDKVMDNMSGSVRA MLPDAFQAMLPAPLASYQVRS PCLTYILLLFRYHSYQYHAKEIN LRCLHGRDHRDAAFRAGLYTG VRSSTTPTGADAGIPSPGDARF AIHEYIPRNGSSRFNPGKLAPHA
25522	55890	A	25663	1	1665	
25523	55891	A	25664	475	1182	
25524	55892	A	25665	242	3059	
25525	55893	A	25666	1761	1970	
25526	55894	A	25667	455	1137	GTKPRDIDHILGTFITPGMPKGG KLDVYAAPELPLKLLGRPTEGE YNEEF/SLLPVVNYLKDKLSNP V/RLDGVDVAEGEL/VVLENVR FNKGEKKDDE/HRAQASTHGIG K/FADVACAGPLLA/AVLDSLSK /IADQLIVGGGIANTFI/AAQGHD VGKSLYEADLV/DEAKRLLTTC NIPVPSD/VRVATEFSETAPATL KSVRHSDKISYISTGGGAFLEL WKVKYLPAVAMLEERG
25527	55895	A	25668	1108	1932	
25528	55896	A	25669	1496	1631	
25529	55897	A	25670	462	1152	
25530	55898	A	25671	545	598	

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25531	55899	A	25672	1	1761	MRGHNWIDMDQARQQSTPHT DRKICHKNDRPRTTPLRKIDAH PHTLIILPAESTLSTTKYKLRAL LVENTNKDKSAVSVVFRGSVL HQQAANFPNLMLCFQLKNGVN ACNDFIMLFVDDNAAGSIERAA SPCINEKQHAFSESVPAIAAVRG LGSMIAVEFNDPQTGEPSAAIA QKIQQRALAQGLLLLTCGAYG NACKRRIDYVCRIKHSRRIRQV VLLNFAKSGAFSTTRGTDDKLT PVIQPRASGEYNEEFSLLPVVN YLKDKLSNPVRLVKDYLDGVD VAEGELVVLENVRFNKGEKKD DETLSKKYAALCDVFVMDAFG TAHLRAGFLLTGI\GKLRCSLRC AGPLLAAELDALGKALKEPARP MVAIVGGSKVSTKLTVLDSLSK IADQLIVGGGIANTFIAAQGHD VGKSLYEADLVDEAKRLLTTC NIPVPSDVRVATEFSETAPANL KSVNDVKADEQILDIVRDLDAA NVVINAVFSYVTNVWGWAFE WYMVVMLFGWFWLVFGPYAK KRLGNEPPEFSTASWIFMMFAL LYVCCRTVRLGREIHRRAQIVH IDIEPTQIGRVLCRISVLSLMLKR
25532	55900	A	25673	1	984	
25533	55901	A	25674	1	1181	MMAVSAPYVGDNIDDGGIYTQ SETHTISSDCVLDTAAMWTPLS AVIGCTTNPAQYPANAAEVYN KDGNKLDLYGKVDGLHYFSDN KDVDGDQTYMRLGFKGETQVT DQLTGYGQWEYQIQGNSAENE NNSWTRVAFAGLKFQDVGSFD YGRNYGVVYDVTSWTDVLPEF GGDTYGSDNFMQQRGNGFATY RNTDFFGLVDGLNFAVQYQGK NGNPSGESFTSGVTNNGRDALR QNGDGVGGSITYDYEGFGIG\Y TQTYNATRVGSLGWANKAQNF EAVAQYQFDFGLRPSLAYLQSK GKNLGRGYDDEDILQICCMSDP TQNRQASAKLALPCQVALLSSA SPHHAFTPSTSIIQPAHIIIHSSPP PWASSHSISTHQQHTQCSSSSNT LAVH
25534	55902	A	25675	1	147	

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25535	55903	A	25676	683	947	QVRDSLQQGRERRIALSIGWLV WREGCQDQCELEAGGASALTR RGSCRELDPAPFATMLLFCPGC GNGLIVEDG\QRCHASTDAVPP
25536	55904	A	25677	12	393	RGSCRELEPAEFETMLLFCPGC GNGLIVEEGQRCH/RAVACNT\ CPYVHNITPQGNTIWKYPKLKE CGSDVLGGAAAW\ENVDSTAE SC\PKCEHPRAYFMQLQTRSAD EPMTTFYKCC\NAQCGHRWRD
25537	55905	A	25678	234	567	YVDETDDCFENNRCGQPVNGA YSPAGLSRVAADASLTTPHAK* TLRSLTLHQHDKTRTELLNDVA GALALDDKLGRSTNQLSGGEW TPSLARPFLLLGPRKMRLLPLH LPP
25538	55906	A	25679	1	794	HCDGKHFTGVGKIMSIGMQLQ DVAESTRLGPLSGEVRAGEILH LVGPNGAGKESLTGREWPEMP TVKGTIQFPGHPLEAWSAKK\L ALLRAYL\SQQQTPPFPPPVWH YLTLHQPDKTRPELLNDVAGA LALDDKLGRSTNQLSGGEWQR VRLAAVVLQITPQANPAGQLLL LDEPMNSLDVAQQSALDKILSA LCQQGLAIVMSSHDLNHTLRH AHRAWLLKGGKMLASGRREE VLTPPNLAQAYGMNFRRLDIEG HRMLISTI
25539	55907	A	25680	12	414	RAAPSRNLPPRMPIPIAAPIAAR PIITAAAMYSRSIFRFSMTVSSLF QLKRSSVGKLMFFRRHRQIDDR QNHEDEGLQRNDQDVENGPRH IQDPL*PPRQETSNQNEDQLSGV HVTEQSQTEGSWFGQHAYPF
25540	55908	A	25681	568	724	RFSLGTVLDGIYPHQYDGYSR WSAKRYL*WRNL*SGTHRSC* VNNFTRSNKK

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25541	55909	A	25682	1	974	MNGKLQSSDVKNETPYNIPLLI NENVISSGISLISLWHTYADEHY RVIWPRDKKKPLIANSWVAVY TVTGCGNSDRLNNIRTLRA\MA REFSIDVLDEMLQQFRVVTPDR PEHKQLPQHELAERQEKISTWL ELMKADGINPEELLGN\SSAAA PR\AGKKRQPGSAKYLFT\DVN GETKTWTGQGRTPKPIAQALAE DCHGKPEYGSAVHGCRCDDGS AGNLCFDLNRHCGLGVRLRPR KINGDYRSRFCHAGETGVCAG AETTQMAESGVSGAGLAVRGE RDGKRSPLQIAIMMNGSSGQAI SSNVIILQLFLVEVIKSLRMLYM
25542	55910	A	25683	1	1359	
25543	55911	A	25684	1	918	
25544	55912	A	25685	72	690	PAPVAGAHCPLGLHRSSEHQEP QLRHVARWPSS*SWLCHGTFR KLLPGKKRRGGNKKF*GRRAR GVGCVVSRVWCGPACACSLRR WLAHTVHWVFTEAQSIKSHSS DMWPDGLALSPGCAMGPSGSC SRGKNVGGATKNFRGVHNIYC HKPIPTTQHESKYARQTTTEEC TQTSSHDFRTTFSAVMQQRLQI ARNLVTHPKLVFMDEPTGGLD VSVQARLLDLLRGLVVELNLA VVIVTHDLGVARLLADRLLVM KQGQVVESGLTDRVLDDPHHP YTQLLVSSVLQN
25545	55913	A	25686	1334	1545	RSQSRLERSCSVTGSM*RVSPA RSFRRITKRVLAAARLAT*LPAS GRRTGVGVSVDSEFPSELLSSSF TD
25546	55914	A	25687	1784	2125	WLQHIHPQLLRCPVLRAQNVW IRTLYDRH/RFVTRGTLGWIETG DF/DKVPPDLRFFAGGDRSI/RG YKYKSIAPKYANGLDIGKSPAA GAISPCLTFVMSARRGGHRGQS ASGCRA
25547	55915	A	25688	931	1213	NLHPAPAKRRAPARPQSRLAHR QRGRMRGAPRPFRQRQIKLCY ARCTPTICPTKVKSRSNTVTSG* TWSPRQRAKWWKSAKPPSAGL TSSARHP
25548	55916	A	25689	999	1243	VDPVPWLPMALDITSTAPARQF RKRIIASLMPT/WGTSLRRYSVP PRRSGWKRWRFPPTGSTTCRPP FPAVCSSVCRLPATW

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25549	55917	A	25690	1225	2341	ARTFRLSNFGGSTRARGVYWD PNSDLCPTLDFSYKMPLLKNPL EQYYLVQGGFKRTDLNDTESD STTLVASRYWDLSSGWQRAIN LRWSLDHFTQGEITNTTMLFYP GVMISRTRSRGGLMPTWGDSQ RYSIDYSNTAWGSDVDFSVFQA QNVWIRTLYDRHRFVTRGTLG WIETGDFDKVPPDLRFFAGGDR SIRGYQY\KSIGPKLPNGD\LKG ASKLITGSLEYQYNVTGKCTK WQFGEWLAPGEVRLAPGATLA TPELVASCSTEGLNGLAANFHA ELRARLPWHGGAMKPRPVHLN TWEGFYFDLQPDKVKALATAA AALGVERFVLDDGWFNARHH DRAGLGDWWPDATKFPQGLG ELVAHVNPFYA
25550	55918	A	25691	45	233	SSYPRWWAAWWASTTARPSTR WRSSPR*SATTWASSPSPTSP*1 HDRPGIGATHSSRFIPLK
25551	55919	B	25692	1	558	
25552	55920	A	25693	324	657	
25553	55921	A	25694	831	1244	WQPGGR*WSRQRSADGTGPDD LAAAYFPGDRFYRN*PSERC*H RRG
25554	55922	A	25695	1	1215	
25555	55923	A	25696	1	840	
25556	55924	A	25697	1	1365	MPQNRGGFLDKKNPGAPLEGA VYVNCFTRFPGIGYEGRTAVFC GAAKVPPGLNYRGIGAFPGGNF ASKRSRGRNLAGARCLRFCPK\ WQ\NYSETASVQQQN*SVLARA IERGINAPLA\SSCGRFFDAVPA ALGCAPATLSYKGEAACALEA LAASCHGVTHPVTMPRVDNQL DLATFWQQWLNWQAPVNQRA WAFHDALAQGFAALMREQAT MRGITTLHPEGLERMSAGHES WLERRNGELGEGKGSKAYPTG DHKGADLYDDSNFLIQNIFVED TRGLLRQGREDLIERYKDPLNE NPKRCVEQLANWHKELEEYKK ASRIDIKPSREYASTIMNAIWTG EPSVIYGNVRNDGLIDNLPQGC CVEVACLVDANGIQPTKVGTLP SHLAAMMQTNINVQTLLTEAIL TENRDRVYHAAMMDPHTAAV LGIDEIYALVDDLIAAHGDWLP

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25557	55925	A	25698	1	950	MPDEENRFNALKAVFSQLMTD ATLTPLFNYHYRISAPPGVNGL SMKRAVVVFSGGQDSTTCLVQ ALQQYDEVHCVTFDYGQRHRA EIDVARELALKLGARAHKVLD VTLLNELAVSSLTRDSIPVPDYE PEADGIPNTFVPGRNILFLTLAA IYAYQVKAEAVITGVCETDFSG YPDCRDEFVKALNHAHKEKLD EDCKRRMYTNPLRVLDSKNPE VQALLNDAPALGDYLDEESRE HFAGLCKLLESAGIAYTVNQRL AVNPEFKADPVVDIYLVASGA DTQSAAMALAERLRDELPGVK LMTNHGGGNFKKQFARADKW GARVAVVLGESEVANGTAVVK DLRSGEQTAVAQDSVAAHLRT KEKDSVEIYENENDQVEAVKRF FAENGKALAVGVILGVGALIG WRYWNSHQVDSARSASLAYQ NAVTAVSEGKPDSIPAAEKFAA ENKNTYGALASLELAQQFVDK NELEKAAAQLQQGLADTSDEN LKAVINLRLARVQVQLKQADA ALKTL*IPD*RPDAGLRCKRSPR SPAVCTDRQNAHEIPRPDSHLM PERR*EAPALPDFLNPARAAG
25558	55926	A	25699	1	3314	MKISRLGEAPDYRFSLANERTF LAWIRTALGFLAAGVGLDQLA PDFATPVIRELLALLLCLFSGGL AMYGYLRWLRNEKAMRLKED LPYTNSLLIISLILMVVAVIVMG LRAMLMAMEPIWESDFHTLSY GFRPERSVHHAIRTVKLQLTDC GETRGRWVIEGDLSSYFDTVHH RLLMKAVRRRISDARFMTLLW KTIKAGHIDVEDKRAASEGVPQ NKIISPLLSNIMLNEFDQYLHER YLSGKARKDRWYWNN
25559	55927	A	25700	997	1716	PYLTASSSAFQQLHLSGENHRD DGCAGYSRRTLAAQLQCHCEC DHNLPPDTPRLPRSGVVLPARF PRPLHTLISALHRRVLTRHARH ESSTLNPQRLPPAHRFFACQSRY VPGPAEYSYAVRSTDESG*A*W LRVPPNLIALTVQRSLPDLALPA QNCPPCRSMLEPAPYILLGMLA TWPACPG\HEVG*SHSAHPDEP ETLQTVSR*YRRFGRPVH*SVH VVGRYPHQACQCYLSSTAE
25560	55928	A	25701	1	769	

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25561	55929	A	25702	1	3707	MVRSAVVAGIAQAALPQSVVA WEYLVEDYDRIRNDIEAVLPEF ADYNQRIRHPGGFHLINAAAER RWMTPSGKANFITSKGLLEDPS SAFNSKLVMATVRSHDQYNTTI YGMDDRYRGVFGQRDGYRDN CEEIAQLAEDCGNLFAVTVFRC PAGANLQGNRNVHCIDDLGKD RFNDIRNVQAAELLAEMAISSA QRRMRAAKKVVRKKLTSGPAL PGKLADCTAQDLNRTELFLWK GFQNALLRGFPAVRLHSLL
25562	55930	A	25703	1	369	LPSHGAGLGTCSLPCLSLPPTP WAPVQPEPPRRAPPPAPWRPVP
25563	55931	A	25704	1	444	MRLHSSALGRSMGLGAVEQGA ALVGEAPAAQEPTEAGEGSGM AGCSPKACPAGRQLRPGPA\AA PSAGPPSPRPPGTPAGPQAPRAA PVPARASPSTPPCKLRERAAAF A/EPRKGLPQCSGGLKGSSSAA KVGAQAEEAPRASESCEDC
25564	55932	A	25705	1767	2130	YTGQRLRRVYWVPQQCQPTCA ALDFSPSLSCLPA/AAGLRTYSQ PCLSLPPTPWAPVQPEPPQ*APP PAPRRP\AHRPPKG*GVQAHGA G\RQAAPPAAPVRDPLG\KPAGL LSLVGTWRTFMS
25565	55933	A	25706	654	832	RRCARFLAGP*LPSHGAGLGTC SPPCLSLPPTPWAPVRPEPPRRA PPPAPRRPVLCVFS
25566	55934	B	25707	1	537	
25567	55935	A	25708	1	455	HCGSVIGGFLVSLTLRTKLRTL AVSVTALTVVCLEFIPSDVRMR SVSSFWWVRSLAGSRVKLQTF AVTVTALKAASLELFVPPGGLV VSLASGVKLQTAAAGK/RCLPV LRHAPALLSPWVVDGTGHRGA GGGAHRGGSGRPGAHGGGGRL
25568	55936	A	25709	1	314	SACREVWRERHEREPGLRGAL AGQLEFRVGVGLVRPALGGAG QPGAALDFSPGLSCLPA/AAGL GTCSPPCLSLPPPWAPVQPEPP RRAPPPVHGAQSHRPPKG

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25569	55937	A	25710	144	519	HPGQRLRRVYWVPQQCQPIGA ELDFSPSLSCLPA/AAGLGTCSP PCLSLPPPPWAPVQPEPPQRAPP PAPW/WLSPIDHPRAEECECTA QDWQAALPAAPVWDPLEMSG LFDRAEKRYIRSFARKDSM
25570	55938	A	25711	271	743	ARTWNVPKVCVRIKANSHSIFT GLSCLPAGQGSGPAARHA*ASD PLRGLLCGPSLLDE/PPPPAPWR PVPSTTQGLRSAGEQRGTGRQL HLSAAPVRDPRGEAIWAPESGR SAASILKPARPPAHREERTTPDA PP*EL*HSPRRSAASLREDPWLH S
25571	55939	A	25712	1043	1348	GPARNRAQRRRAGTAGGPITPS AAAGPGAKPLIARRRQGWPAA PSAGPAKPTPTRISSWPAS\QPA AAVPARASPSTTLFKLREWAPA LASPERGSHSATVG
25572	55940	A	25713	22	226	NTRRWTEMTFDQVVRIFSIGNL QTVLQNRQPGGAIARCTGHIDP VTRFRPRAR*GSSHRNKAVDTQ RH
25573	55941	A	25714	166	714	
25574	55942	A	25715	1	462	

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25575	55943	A	25716	1	924	MFAIISYSSLAAVLLTATLTAAG IISFPVALCLVIGANLGSGLLAM LNNSAANAAARRVALGSLLFK LVGSLIILPFVHLLAETMGKLSL PKAELVIYFHVFYNLVRCLVML PFVDPMARFCKTIIRDEPELDTQ LRPKHLDVSALDTPTLALANAA RETCALATPWTDDGRKYAYSA ASGGRRSATKVMVVVTDGESH DGSMLKAVIDQCNHDNILRFGI AVLGYLNRNALDTKNLIKEIKA IASIPTERYFFNVSDEAALLEKA GTLGEQIFSIEDMDLGDEVYTV GRPHPMIDPTLRNQLIADLGAK PQVRVLLLDVVIGFGATADPAA SLVSAWQKACAARLDNQPLYA IATVTGTERDPQCRSQQIATLED AGIAVVSSLPEATLLAAALIHPL SPAAQQHTPSLLENVAVINIGLR SFALELQSASKPVVHYQWSPV AGQGKWLANPELLEADADAEY AAVIDIDLADIKEPILCAPNDPD DARPLSAVQGEKIDEVFIGSCM TNIGHFRAAGKLLDAHKGQLPT RLWVAPPTRMDAAQLTEEGYY SVFGKSGARVSSIPCAVPCVWA RVADGATVVSTSTRNFPNRLGT GANVFLASAELAAVAALIGKLP TPEEYQTYVAQVDKTAVDTYR YLNFNQLSQYTEKADGLLKPRF RPWQRKILDTLATYHEQHRDEP GPGRERLRRMALPMEDEALVL
25576	55944	A	25717	1	417	MGVLNNWLSEEESLWIQSRIHL RALRYYSNWRQYFAGYTFGRQ YWQSPEDDHLPLLREFLARYER PMKNCWKILDIEETTDVDIIRRA YLALLPSFHPETDPQDFKQLRQ AYEEALRIAQSPAKSVWQPEEY EVAEHEILLAFRALLASDSERFL PSAWQRFIQQLNYCSMEEIDEL RWSLCTIAMNTAHLSFECVVLL AERLRWLQEENTGEIDEEELGS FLYAIAKGNVFNFQTILHLPVA RRPDICTQHNDQSRCEGYQILS DKRGHQHGGGITALYQCGNAD PRAKGERLFFDAPA*CASSARV CVLSLAGASKKSRSPFARGSAL PHWYRAVMPPPCW

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25577	55945	A	25718	1680	2058	YRAYAPAFLPLSPSCPPLWRHC GSGRGENRRRDSSAHGPYAPRR QPDMPAHRQS*SFV/PASCSAC MDEPHKRLTVTAGTECGTSASS AALRAILKPCSSVCSSFFLLLLL PPPPPSSSSSSFFFLF
25578	55946	A	25719	1115	3549	NPDRLLQLNLILETSK*QQMGD TRKKRS/NLTVAPIISPLKRYEQ HTELSRHINVVNLGDRNRRQQL ILDQGKSSQRNIYLSHVAQKIPG RATYALSHSVDMITIQLGTLLR CAPPHRRRYAGRFFCRSAGNFL NVQGFDAVLVAVKIIDLLLCLT IAPSLIVCTRLRSPWCGALRRCS TDGRSDLASSGVMFSIDTESAL TRWCLSLPHGALGKIIAEGLLS VIASKASAIVTTVAVVPVTRRSS LVNWHSGGSGLWRCNRTDERD QQASQGTTRMGRTQRNYSPTR QAIHKTGSPTMATTSNTEQPPH EKPNTLTQHPRNPDRTIHPKAT HNELTQDTPQRDAKQNGEKTQ RKKNCLSELNDAEDQAERFQD RLMLKLQVTTKPCSMTRLRDC AGIWSAANRWSGIGIDRMIMLF TNSHTIATLFSSRRCAHRNKFH LMNEAVRRLLRSSFRKSVLRRD ASFHDNQRVHSLQLLKERKKSL IHGRICAAKASLFQTRRYRWQK APLFSAQFRGRNRAVTHNRWV TTTTAIERTRARGLRPNSGRGF HSSPAWQLRHRKCRRCARRYH TVYWIKRRRSVARASTVVSGRI TSRRGENRRRDSSAIAHMLHAA KQTCLRIAVMIIRAASCSACMD EPPSDLTVTAGTDAGLAPAGYA LNERRDLLHALTKSTALRTAHR GPNRTGWLNRRIVRFVMTALF
25579	55947	A	25720	606	1562	
25580	55948	A	25721	688	762	
25581	55949	A	25722	492	737	SLPSGATLPPPALLLASAPDTA* WRCRER*YHLPAYAALSPAVA HRASLYSTLPSSVPWRRQCAGF RARRSPEQAWAYPAR

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25582	55950	A	25723	335	903	WVHDLPARKGSSARNIMLKSA PLRGHTRTRRKKMNIIEANVAT PDARVAITIARFNNFINDSLLEG AIDALKRIGQVKDENITVVWVP GAYELPLAAGALAKTGKYDAG IALGTGIRGGTAHFEYVAGGAS NGLAHVGQDSE\IPVAFGVLTT ESI/EQAIERAGTKVGNKGAEA ALTALEMINVLKAIKA
25583	55951	A	25724	3644	4545	SEAWPWRTAGTCLLCLNTT/AH VDKAIESRTVVADVLAKFENAL TGKLLTVSFQAHEAVIHGHHPA PEENLQVLAALRLQYLQGDYT LHAAIPPLEEVYSLQRLKARISQ STKTFTPCERLEKRRTSFLEGTL RRSFRTGSVVRQKVEEEQMLD MWIKEEVSSARASIIDKWRKFQ GMNQEQAMAKYMALIKEWPG YGSTLFDVECKEGGFPQELWL GVSADAVSVYKRGEGRPLEVF QYEHILSFGAPLANTYKIVVDE RELLFETSEVVDVAKLMKAYIS MIVKKRYSTTRSASSQGSSR
25584	55952	A	25725	1	735	
25585	55953	A	25726	147	504	STCPASAPPRPSAGPRILSGSSAS GSPLGSSSASSPAVHKG*RFWL TG*CGP*VSAGNK\LFERWDGS VQSIIPLQILESQGSKNLEVFFRG WMVAMDNRFVGLKGDSQQLS GQRIFKLG
25586	55954	A	25727	1	639	
25587	55955	A	25728	1	1247	

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25588	55956	A	25729	1	2376	MAEVEEKKQRIFRKFTYRGVD LGQLLDMSFEQLRQLYGARQL RRLNHGLWRNAEAQAAFAAE APMLGQEGGADHREAGSGEDA PAGYDHPSQDGGQQGGRLQRQ DLQPGGDQAGDDRPRPGRVLH HLQAQRGKKPM/ISTVTFGQ*P DPPLRAGQRL*RC/RLLIYGRGK CWALSGNP/RSGKTTLLKSISAR LTPQQGEIHYENRSLYAMSEAD RRRLLRTEWGVVHQHPLDGLR RQVSAGGNIGERLMATGARHY GDIRATAQKWLEEVEIPANRID DLPTTFLRATHTVKMFSIPGYSS PGQLLDPETNINIGTSYLQYVY QQFGNNRIFSSAAYNAGPGRVA TAIVLTLYIIYMVGFFATSGELT YEVWIGFFASAFTKVFTLLALF SILIHAWIGMWQVLTDYVKPLA LRLMLQLVIVVALVVYVIYGFV VVWGMRAALQISQSGQTCALL SKVFPTRSHTVSAQGGITVALG NTHEDNWEWHMYDTVKGSDY IDAGRKRQEEGDWNSGVGDPS DAGDRKHQLKAAQLRPEAIKQ RRIANRLKRRTQFPRHLKGFVN TLKPIHGGCSVGTKCPQMASLP EGLHHPVKLVFLGKPGCLLTDR PLKGPNTAKPVAVDLNASATAI TSYSLYGGSMILLFLASTLYHAI PHQRAKMWLKKFDHCAIYLLI AGTYTPFLLVGLDSPLARGLMI
25589	55957	A	25730	219	652	SASWREAICLSRCRLPRSATAR GAGRGGCGLADRRASRQGKNL EAESAQEQNGHQHRIHESQHPC QGGAPVSHHQAAVRLRESQIQ GAAEKR*PTGDVIHPGQPVSGG /LK*YPSIPTCLLTTRTASLLKPP GVRTSVCWQQLPR
25590	55958	A	25731	1902	2100	RKFFSSSSGRS*PVRCSKL*SSID A*PLERIKRSRSYQVGSVGLCL RKSFHSTSAISAMPIGAPG
25591	55959	A	25732	3223	3669	

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25592	55960	A	25733	1	4325	MPEPPTHSMGSCAAGASLTSTA PCSTAPSPIDHLRAKECERTAQ DWQAAPPAALVRDPLAALVRT WRTFMSSSRIVNTPIGTLCLAQ GFQWFSVLSQVHASTDQEIQE MHDEQANPQNAVGTLDVGLID SVCASDSPDRPNSFVIITANRVL HCNADTPEEMHHWITLLQRSK GDTRVEGQEFIVRGWLHKEVK NSPKMSSLKLKKRWFVLTHIPG LLQEFREDALNWGPDEKIFKET ELVNDMDKINGRIERAE
25593	55961	A	25734	501	2871	TGCCCLRKTDCRRRESARGVH AVYRRICARSMLLYRESVRPKA VTARVAVEAGIADYWYKYVG LNGAIVGMTTFGESAPAELLFE EFGFTVDNPLASRAVRLRLPFN NDQVEAAVGWKLAVERHNGP TALILSRQNLAQVERTPDQVKE IARGGYVLKDSGGKPDIILIATG SEMEITLQAAEKLAGEGRNVR VVSLPSTDIFDAQDEEYRESVLP SNVAARVAVEAGIADYWYKY VGLKGAIVGMTGYGESAPADK LFPFFGFTAENIVAKAHKVLGV KAGSHIPRKKYDVPGKKSFSPV KYSTIGSPSPERPVSITTIPNSFVI ITANRVLHCNADTPEEMHHWIT LLQRSKGDTRVEGQEFIVVEKL IRGLAMEDSRNMFALFEYNGH VDKAIESRTVVADVLAKFEKEP VGKHLPTYDGQIAMGLESTAS VTRKHSSPSSLQNALSCETATSL IERRVRMALGTGDRRGLNTWL ARLPMEAKEKDEWRYWQADL LLERGREAEAKEILHQLMQQR GFYPMVAAQRIGEEYELKIDKA PQNVDSALTQGPEMARVRELM YWNLDNTARSEWAN\LLKNKS KPDRAHLPGYASTTQWWILSV QATT\AGNLGDHLKERFPLANN DLSKRYTSGKKIPQSYAMAIAR QKSAWNPKVKSPVGASGLMQI MPGTATHTVKMFSIPGYSSPGQ
25594	55962	A	25735	1	1195	

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25595	55963	A	25736	1931	2676	FCGNTHQTYLGWVGGVANSEA *GEKWGTPDLVG/AERTETIQR LLGVCPEQGEGKIYIDGKQVDI RNCQQAIAQGIAMVPEDRKRD GIVPVMAVGKNITLAALNKFTG GISQLDDAAEQKCILESIQQLKV KTSSPDLAIGRLSGGNQQKAIL ARCLLLNPRILILDEPTRGIDIGA KYEIYKLINQLVQQGIAVIVISS ELPEVLGLSDRVLVMHEGKLK ANLINHNLTQEQVMEAALRSE HHVEKQSV
25596	55964	A	25737	1491	1667	TNGQWRAFYC*MRSGRNIRRR GEDISGGAGVSPRESPE*REVPE MGPGGAANRGTKRV
25597	55965	A	25738	419	823	VTLVAITRPIHVNRLRQYLVAIS LNETFGPSCKPSRSPCSSLSTCC WNAGVMHKK*VQGGRLCSYR N*SICLVVISPVVMGKRCIS*RC TAVLAALTVTVPSGVVAAHSV MLPRLPMKRSSIVPLPSNWRTS
25598	55966	A	25739	591	968	VKQCKQADEH*EQSLIPLERRR TTPLSVPQL/GKALTTVSFCASG GTSVNSLSHTS*ECMASAVAVK FTFPNLAVNFCTAAMAGPKVA LTSTLARIQAGSLARTGGRAYR WSRSTMLAKSFWCLMAL
25599	55967	A	25740	764	1005	QARPRAPRRAPYPILIRSSIITLIY /DGQRLGHLDDGTDSWNHVPT LNGQCTLVLIHEYVDTRGPEIK TILVISWWNILVFH
25600	55968	A	25741	463	786	
25601	55969	A	25742	3	646	
25602	55970	A	25743	1	3008	MTMLQIVGALILLIAGFAILRLL FRALISTASALAGLILLCLFGPA LLAGYITERITRLFHIRWLAGVF LTIAGMIISFMWGLDGKHIALE AHTFDSVKFILTTALAGGLLAV PLQIKNIQQNGITPEDISKEINGY YCCFYTAFFLMACSDQRRLRG AMDKRYKFILVGFGEVFVFNLE SLDSGKKIHLLRRSHEEVMGSV MRTGTIDKGILPFIHHTRGNEIL FIPALFILFSLGGAVFGMGEEAV AFAIIIA

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25603	55971	A	25744	2	3494	TITNLRPAAPGICEMAQGLSAG GEYTGASIFVAEYSPDRRRGFM GSWLDLRSIAEIELGAGGVGLIS TIVGEANFLDWGWRIPFFIALPL GIIGLYLRHALEDTPAFQQHVD KLEQGDREGLQDGPKVSLKEIA TKYWRSLLTCIGLVIATNVTYY MLLTYMPSYLSHNLHYSEDHG ALIIIAIMIGMLFVQPVMGLLSD RFGRRPFVLLGSVALFVLAIPAF ILINSNVIGLNLLPAMFPTHIRYS ALLLEMKN
25604	55972	A	25745	1	277	
25605	55973	A	25746	902	1006	
25606	55974	A	25747	2	1265	
25607	55975	A	25748	409	525	
25608	55976	A	25749	91	431	NHKPGNIDVARRIQRGFAGDQI GHLRPVERQCSPDKRRFIAADG REIRGKQRAGHIFQLLSRCLLQI LNHCQRRAAHFRFQLSNQRHQ QLLPV/HYHAAEREYPAGACLV RWLL
25609	55977	A	25750	3	71	
25610	55978	A	25751	1	1212	
25611	55979	A	25752	1	2786	MAAVIEQIRRAVLALVTGVVHP GDIPVVWDIVWNATAAFIAVIII SLLLDESGFFEWAALHVLRWG YGPGRLPFNRIGLIRRITRRIRQR LLFGLVTFILLLNRSQNPAQDIQ LLAFRARTGKQTAQFIHHLPRM VFTDKTGSSNGLAPQGQCSAQ GELILNEKLAKQLVTAANWVK MQSDEGEINPVDILRWPGVMA AQEQDLDAIAAEILAALDGTLD DFIVARETEGQSGLKRVYHSPG APDIREFTRDAIP
25612	55980	A	25753	5	402	EIFSVVWIIMTRGDVVTISRWR VSSSPLETWNKRWAKISPAPFS LLPISRLEKSEGDWLPETVISAF NMPSSLSLIISSL*FKVRDV*HFF /RI*TLRGHYRVINWPNFNIVVS QGIGKRLANSWLVFTLFHRI
25613	55981	A	25754	48	219	PETCGHLWAYVWPSCAAV\GL YFKVHVLG*RSVTPVTDIVKLL EFTRLRLPGYTKSIE
25614	55982	A	25755	1	912	

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25615	55983	A	25756	1	1857	MRVCARACVRTRTRMCVYAH TCVCVRTYAYVRVRVRVHVRA RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALEHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLLAFLCSTSPGF GDPDGLGVIAYQDTVRPNAAT AISELNALAVKGVILTGDNPRA AAAIAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMGSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTLDDRVVAGSAGRYGGDGA GDSECVKIVAQEIRQTDRNIER DRSPRPSGERVRVRGKGGIEAN QPLSTAFTNQITIRQSIRLFSNQF VFHKGISRVVAGSSAIISNVSPG CILRTPNCRRGFPISCTGEGKAA YGWQRDGGHAEYLLAEEKDLI LLPDALSYEDGAFISCGVGTAY EGILRGEVSGSDNVLVVGLGPV GMMAMMLAKGRGAKRIIGVD MLPERLAMAKQLGVMDHGY*I LPDVY/V*IGVARVSWMNGRID SELRTRVRAYAHTRTRARTCTR TRTRTYAYVRTHTHVCAYTHM RVRVRTHARAHTR
25616	55984	A	25757	3	1180	SKLGTRRSVVWA*SPSTSPTLW CSTFSAAGHSSMKRMNEFVDL LPAQQRMKGENWYRGTADAV TQNLDIIRRYKAEYVVILAGDHI YKQDYSRMLIDHVEKGARCTV ACMPVPIEEASAFGVMAVDEN DKIIEFVEKPANPPSMPNDPSKS LASMGIYVFDADYLYELLEEDD RDENSSHDFGKDLIPKITEAGLA YAHPFPLSCVQSDPDAEPYLAR CGYAGNFMESEPRSGLIRVSCM PAGPPLPLPAARSEAPKAAGTV ASVPSIAPARLRPVPDPVELVLV AAEFITPGDPTPRLHGSGFIDIR QIHHQTRSHLEGVKTGIRFLNH FSGNPQGGIAHVNGVARFQVK QCHQAWGQQYAARLRFQARGI SLQIAIHRVDIIHRFDVRQL
25617	55985	A	25758	16	543	
25618	55986	A	25759	1	3387	

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25619	55987	A	25760	1688	2234	LSVGKTFPVLVPAAFRKVSATG AAVPGTPSILALPSYSTTPFGVC TSASMNVPVLTLRIRTRVTGEV AAIKPFSMANAPTPDSILPQLGV VSTRCS*TITCANR*STSARGSL ERLIMATLL/WVAGTFD*SVWF GHDTDVVTLYRFHEALCYSVT LRTPHRRVLRFKSQHPGELACFI SPVA
25620	55988	A	25761	905	4762	PPHNWMPSNATPGIAFVWCAY GAI/LPGDAPVPVVDDYRKVVR KDTKGLIARWKYFWMSVIALG VAFALYLAGKDTPATQLVVPFF KDVMPQLGLFYILLAYFVIVGT GNAVNLTDGLDGLAIMPTVFV AGGFALVAWATGNMNFASYL HIPYLRHAGELVIVCTAIVGAG LGFLWFNTYPAQVFMGDVGSL ALGGALGIIAVLLRQEFLLVIM GGVFVVETLSVILQVGSFKLRG QRIFRMAPIHHHYELKGWP
25621	55989	A	25762	1	1448	MCHVLLAGRQRRTAGPEHALT PPECGSAAIGPAVYKWAHATG VMIPDRPRSPHAGAEERHWHH PQPELISQRLGSFSSGPTKYIHEF QYLTLSYNLTWSDLNVILTFILP LDEWERVFSLAQSHTDNCRLH KPDLQEGIREVPQEDPQWNYQ ENSPGIARRDYMISCLVEGLKK AAYKAINYDKLKETTQGTDKN PAQSMACLAATMRHFAALDPE ALAPHRDVNHGIKLTCKTIRSSI DISREIRAPRECRSTEMASWHPP ADLTECPVESGYSVLSGRTDCQ YSHTVRRACLTTIDSRPAVRQL LKIREVQLLSLLRGCVRSRRSGS INAQYCRCLERVVTLPFFDSGPS LMNHAPHLYFAWQQLVEKSQL MLRLATEEQWDELIASEMAYV NAVQEIAHLTEEVDPSTTMQEQ LRPMLRLILDNESKVKQVLQIR Q\DGLAKLVEQLRHLSKKHHLD TDSTSSSLPGVRTPYSPIRGGEE

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25622	55990	A	25763	1029	1665	RPESISSVASKTRLGRSFHGAAR RTREYHSSTCNASIAAAATV\A AQGHPDTTSTPPASVDTTATNT QTPAVTAPAPAVDPQQNAVVS PSQANVDTAATPAPTAATTPDG AAPLPTDQAGVTTPVADPNAL VMNFTADCWLEVTDATGKKLF SGMQRKDGNLNLTGQAPYKLK IGAPAAVQIQYQGKPVDLSRFIR TNQVARLTLNAEQSPAQ
25623	55991	A	25764	658	1307	SNRLYTDVESINEIEGIYMKLRF ISSALAAALFAATGSYAAVVDG GTIHFEGELVNAACSVNTDSAD QVVTLGQYRTDIFNAVGNTSAL IPFTIQLNDCDPVVAANAAVAF SGQADAINDNLLAIASSTNTTT ATGVGIEILDNTSAILKPDGNSF STN\QNLIPGT\NVLHGLAFRAR CVSTANLRVPRPICFDPGSSYQA NTIGSGRCADCQPDA
25624	55992	A	25765	167	232	
25625	55993	A	25766	441	686	
25626	55994	A	25767	206	331	
25627	55995	A	25768	674	900	VVPICTMLEEALERQNLTASLC G*LKKACGRSWQTSPIKRSLNG AKFSRTSIIMGFITAEKWSGWEI WSARNVTS
25628	55996	A	25769	41	222	
25629	55997	A	25770	17	525	ESLECSGPSWNASGTQSGFYCH RIAPILPEKRLARMVEKTWGLG LRRRTGFRRQNLGGGTGTLVE CTSENS\KPSKSSFRKQRRGQRR EGH*SLRR*IRRERTERMQASR VTWNSFPQVPAAKKPSSLSESG *P*ATNYTREQDSMWNCVHHY WQPPTSVSRLVHLNSG
25630	55998	A	25771	698	1051	PYLRIRLTALISRSSTVMRILFAI SKRPIT*PKRPKPTTMTWGLSSL THGFSSSSSGPLNWRDSHLSTSF ISNGVVIMESVTVTSNNAIWSPS SSVAAVNTSRTPEAAIKRNTGR SK
25631	55999	A	25772	1	2204	

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25632	56000	A	25773	3	891	RYRNQDDHELQIHTGTRFYVEL CGFRVNPPWLATDVTHAAMAL LTLVTTGLHIVGEWGKHATPPV PYSICSNPPRRAAYITVWRNRPC TLGDHLFSIAYPRGLRYDMGG GGEGTAWANVRQALARTTGR AQHWTKDNAKSSREARHPRQN KTKTHLGKPVLRWV/DPSFDQS KYDSIVWNPI/TYYPVPKPSTQV GQKV/LDKILNYTNTEMKEAIA H/DTSKEGLQFYEVVPVALVVA GTQMATGLRTMDTRLYFEGELI DAAPNKPVIKVVRQGEEPDWP SKGDAGDGEKVPSSLSESG
25633	56001	A	25774	1	285	
25634	56002	A	25775	1	302	SFSSFTQRTASVIISSTSTQSRLA TSPILAIARARTSRRCPEKPQLG YPDSAAHVFQQDRATKYVINR NSKKP*ICSACRSTVSTRQHRR WRGSLQPLSQ
25635	56003	A	25776	307	473	
25636	56004	B	25777	67	809	
25637	56005	A	25778	44	301	
25638	56006	A	25779	1	1519	MINRLQHTVYTHKWNSYRTEP DRRHTALRNSFCLVRLNDSSHS RSLDSKQGHTEITFAATEHPPSP VSLRIHDVAFDDGRQTSRAPCF NLEQPGKLDCTKRLISDCWVM HPGESWHGFKDIPDNWSMLDPI KISILAPGMGEDGELEETGVPA ALVTAWLGRHGIVPTRTTDFQI MFLFSMGVTRGKWGTLVNTLC SFKRHYDANTPLAQVMPELVE QYPDTYANMGIHDLGDTMFA WLKENYSGARLNEAYS/GLPSII ERHVVDAQGYRGGGMLCSCES NFCVSLLRIQAS
25639	56007	A	25780	461	789	HHVLSELQQLYTAYRSVDHIID HSLAIARAPQRRRCPEKPQLGY PDSLQHVFQQDRATKYVINGTS KKP*ICSACRSTVTHGHTDAGE EVWNPFAVLVPSGKDARVWG
25640	56008	B	25781	1	990	
25641	56009	A	25782	1	3066	
25642	56010	A	25783	583	904	WGIRTTDFQIMFLFSMGVTRGK WGTLVNTLCSFKRHYDANTPL AQVMPELVEQYPGR*FTGVRK KSNN*FRQFGGVDTAGNNL\SEI FSASASAEIFPANSFCNRLA

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25643	56011	A	25784	331	660	TGIQLPGAP*SQPWSTRRRAVV RPLYRVN*AVP*NR*VIRSKRA MPKRTDIKSILILGAGPIVIGQRL GWRDSDGVRLCGVLGSQENVC ELDEKGEERWSISGTSSEFTR
25644	56012	A	25785	1	798	MSDAEDGARTTLGSGNAVERL ADALSQQNVTVIKSTSLDDGFA ILSSNEAIDCLMFSYQMEHPDE HQNVRQLIGKLHERQLNVPVFL LGDREKALAAMDRDLLELVD\ EFAWI\LEDTADFIAG\RAVAAM TRYRQQLLPPLFSALMKYSDI/Q SEYSWAAPGHQGGVGF\TKTPA GRFYHDYYRLLRVAWVLHKTE CRLINFPETPIFGNSFRYDIEVSN ESPDEEVKLRRHHLARCMKNF KTDIYFVSTFEPSTKSVDLLTVE TFAGT
25645	56013	A	25786	211	414	RVCECIQLRRIEIFRFMISSQPNL PEDLHPQIIAKPSQKRLIEQ*SSK LTVTKARRQGSRYKSSRFFS
25646	56014	A	25787	1694	4974	LSLLSAK/PVYMVPSRNRYGIIG PI/YPQEMQPETLQKKISE/SPLT KDKAGQKPSYCVV/TNCTYDG VCYNAKEAQD/LLEKTSDRLHF DEAWYG/YARFNPIYADHYAM RG/EPGDHNGPTASYIHVREGV GRLNFFRFNQAYMMH/ATTSPL YAICASNDVAV/SMMDGNSGLS LTQEDCWVMHPGESW/HGFKD IPDNWSMLDPIK/VSILAPGMGE DGELEE/TGVPAALYSNLCLSSG TTGLSTEALLE

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25647	56015	A	25788	1	1709	MSKPKYPFEKRLEVVNHYFTT DDGYRIISARFGVPRTQVRTWV ALYEKHGEKGLIPKPKGVSADP ELRIKVVKAVIEQHMSLNQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQVR FLETRLMYLKKLKALAHPTKK LSASLTSMRTLKSVFSEIYHENR GRYGYRRVTLSLHREGKQINH KAVQRLMGTLSLKAAIKVKRY RSYRGEVGQIAPNVLQRDFKA TRPNEKWVTDVTEFAVNGRKL YLSPVIDLFNNEVISYSLSERPV MNMVENMLDQAFKKLNPHEH PVLHSDQGWQYRMRRYQNILK EHGIKQSMSRKGNCLDNAVVE CFFGTLKSECFYLDEFSNISELK DAVTEYIEYYNSRRISLKLKGL TPIEYRNQTYMPRVNCPLFDTL RIPDIGGVVRARAIAKLLNDTD MAIIDKRRPRANVSQVMHIIGD VAGRDCVLVDDMIDTGGTLCK AAEALKERGAKRVFAYATHPIF SGNAANNLRNSVIDEVV/DLRY HSAER*NQITAERAYSDPVRKI
25648	56016	A	25789	2902	3271	SSAARHCAGCGDVRSVCRSGR ADAPRMHPGESWHGFKDIPDN WSMLDPIKISILAPGMGEDGE/P TRTTDFQIMFLFSMGVTRGKW GTLVNTLCSFKRHYDANTPLA QVMPELVEQYPAFVINQ
25649	56017	A	25790	185	663	SPVPSSRPSTRHRLPDGSSSSQFS SAIAARKVVNSCILCSKICQN*F NRRAASPLKRLP*SGASGMITVP NQPAPAQ/PAK*LYTRLDEVKP* *KITHGNGVSFCPTG*A*RTGIS ASSRDLEVQSKKRSFPALNWPA VYCCSALGSAPKCKPIPFLRAT V

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25650	56018	A	25791	684	4208	NGLFWLFQPWLFADETRRRLE ERFRDRYQIIHHSSQVCHSDQA VYVLTQERVNERDDIVDIDLFV IDEFYKLAFRQLKSGDIDHQDE RVIELNIALSKLLKVSRQFYLTG PFVNSIRGLEKLGYPHTFVSTDF NTVALDVKTSASKRMTTKPSS KRWGKSRTCVDADHIKNGIGL HFGALPRALQQYTADQFNAGK LRFLLCTSTIIEGVNTIAKNVVIY DNRAGSTRTISADIINSVICGLN TLKSFDTRWALL
25651	56019	A	25792	1	896	
25652	56020	A	25793	231	721	IITAEKGRSREQQLAIL\PLNLAD MRQLQQQHSQTRLADTAADGL RHFTAQQRLMPLQLQAIFVTGQ RQLMLQRVGY/R/LHGSPWRKA QTHLPVPGSTPEYRRSDPHGPA LTGCSSHHNPVRARRGMTIAQL AANPDKEYRARSFAIARSRPLA SRSGYETVTPGC
25653	56021	A	25794	1	933	MLEAAVCLCVFVSCSLAEGRA CCRVAVSIPVSVRARIHLLESDH LGRFREPKSIPRKDAQMDTFRT MVREPATFLDQVDGLQQSDDIL RLLPPELATLGITELEYEFYRRL VEKQLLTYRLHGESWREKVIER PVVHKDYDEQPRGPFIVCVDTS GSMGGFNEQCAKAFCLALMLI AIANKWRCY\IMLSS\TEIVRYE LSGPQGIEQAIRFLSQQFRGGTD LASCFRAIMERLQSREWFDADA VVISDFIAQRLPDDVTSKVKEL QRVHQHRFHAVAMSAHGKPGI MRIFDHIIWRFDTGMRSRLLRR
25654	56022	C	25795	83	1108	
25655	56023	A	25796	1	747	

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25656	56024	A	25797	25	1741	IMERLKRMSVFAKVVEFGSFTA AARQLQMSVSSISQTVSKLEDE LQVKLLNRSTRSIGLTEAGRIYY QGCRRMLHEVQDV\HEHLYAL NNTPIGTLRIGCSSTMAQNVLA GLTAKMLKEYPGLSVNLVTGIP APDLIADGLDVVIRVGALQDSS LFSRRLGAMPMVVCAAKSYLT QYGIPEKPADLSSHSWLEYSVR TDNEFEL\IAPEGISTRLIPQGRF VTNDPMTLVRWLTAGAGIAYV PLMWVINEINRGELEILLPRYQS DPRPVYALYTEKDKLPLKVQV VINSLTDYFVETPTPLSSLTSLPT IEICCMVSIPGTNQRLRPFTGFA THRLQSDLLLQVMTISRGRFSR SARFNGPTPSGRRLIRVIISTESG SRSSNPRTTGCFEEHCDHYRAII DSADGLPMVVYNIPALSGVKLT LDQINTLVTLPGVGALKQTSGD LYQMEQIRREHPDLVLYNGYD EIFASGLLAGADGGIGSTYNIM GWRYQGIVKALKEGDIQTAQK LQTECNKVIDLLIKTGVFRGLK TVLHYMDVVSVPLCRKPFGPV DEKYLPELKALAQQLMQERG
25657	56025	A	25798	1	1005	

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25658	56026	A	25799	1	2392	MEMVAASKMRKSQDRMAASR PYAETMRKVIGHLAHGNLEYK HPYLEDRDVKRVGYLVVSTDR GLCGGLNINLFKKLLAEMKTW TDKGVQCDLAMIGSKGVSFFNS VGGNVVAQVTGMGDNPSLSEL IGPVKVMLQAYDEGRLDKLYI VSNKFINTMSQVPTISQLLPLPA SDDDDLKHKSWDYLYEPDPKA LLEQCSCMLRSPAWGITSTDTT RARTDLACPIWLLLDPYPKLMG NAPKALASVDKRGVPVNTILVS ALVTALCVLINYLAPESAFGLL MALVVSALVINWAMISLAHMK FRRAKQEQGVVTRFPALLYPLG NWICLLFMAAVLVIMLMTPGM AISVYLIPPLQTNTFNSTTIAMA DYQMESLSAEINFAAAKLARA CADEWTARTPEKPRYVAGVLG PTNRTASISPDVNDPAFRNITFD GLVAAYRESTKALVEGGADLIL IETVFDTLNAKAAVFAVKTEFE ALGVELPIMISGTITDASGRTLS GQTTEAFYNSLRHAEALTFGLN CALGPDELRQYVQELSRIAECY VTAHPNAGLPNAFGEYDLDAD TMAKQIREWAQAGFLNIVRGC CGTTPQHIAEMSPGRKRLTRAE SSSVPSTLPGKAWLEHALPLIAE QL/QGRRSAVFIPF\AGVTQTWD DYTAKTAAVLAPLGVSVTGIHS VVDPVAAIENAEIVIVGGGNTF
25659	56027	A	25800	412	1115	LAGEVMDLLLLSNSTLPGKAW LEHALPLIAEQLQGRRSAVFIPF AGVTQTWDDYTAKTVAVLAPL GISVTGIHSVVDPVAAIENAEIVI VGGGNTFQLLKQCRERGLLAPI TDVVKRGALYIGWSAGANLAC PTIRTTNDMPIVDPQGFDALNLF PLQINPHFTNALPEGHKGDPRL FR\IRELLVVAPELTIIGLPEGNW ITVSKGHATLGGPNTTYVFKAG EEAVPLEAGHRF
25660	56028	A	25801	1	360	MDHAIAGIAVQFRGGNLLRFK AFQQRVKYRMCQAERAINRLF NIAVKRLTGNRLDDKSKQHIDI AVDIPKWSDHLHIIRRKHHDPT QDSGTHLPAVADDGFRTSVRN RSA*HIRYLTRC*KALNRNKLPP RN*TAIPAMA

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25661	56029	A	25802	1032	1233	LVQFLRICFHILQRF/LPSH*RQK DESLRALPVSFLCWRTDSDFPA DISYQNYR*YNREPYLPRPDSG
25662	56030	A	25803	1	1394	MTRDGLANKALAVARTLADSP EIRQGLQKKPQESGIQAIAEAVR KRNDLLFIVVTDMQSLRYSHPE AQRIGQPFKGDDILKALNGEEN VAINRGFLAQALRVFTPIYDEN HKQIGVINDSRWSIIWSVLFGM LVGLIGTCILVKVLKKILFGLEP YEISTLFEQRQAMLQSIKEGVV AVDDRGEVTLINDAAQELLNY RKSQDDEKLSTLSHSWSQVVD VSEVLRDGTPRRDEEITIKDRLL LINTVPVRSNGVIIGAISTFRDKT EVRKLMQRLDGLVNYADALRE RSRLEHILHNQRVPFIMKLHHR MLRHFIAASVIVLTSSFLIFELV ASDRAMSAYLRYIVQKADSSFL YDKYQNQSIAAHVMRALAAEQ SEVSPEQRRAICEAFESANNTH GLNLTAHK\SRAYAAHYKPHPL TATQLWK\RSTITRF*SGSGRQP PPG*LRFRSWDGRREISLLSRSL
25663	56031	A	25804	3	219	
25664	56032	A	25805	14	265	
25665	56033	A	25806	744	1566	FASWLRVFSITNCAAPVTSESC ALDLGSAEAKAWIGVENPHRA DVLTELRRSTVARVCTGRAGPR PRTQALLRFLADHSRSKDTVLK EVPEEWVKAQGLLEVRSEISDK NLYLTRPDMGRRLCAEAVEAL KAQCVANPDVQVVISDGLSTD AITVNYEEILPPLMAGLKQAGL KVGTPFFVRYGRVKIEDQIGEIL GAKVVILLVGERPGLGQSESLS CYAVYSPRMATTVEADRTCIY NIHQGGTPPVEAAAVIVDLAKR MLEQKAF\GINMTR
25666	56034	A	25807	596	745	
25667	56035	A	25808	151	660	STTERLGDDFVRAANIILHCEG KVVVSGIGKSGHIGKKIAATLA STGTPAFFVHPAEALHGDLGMI ESRDVMLFISYSGGAKELDLIIP RLEDKSIALAPNSRTVIT*CWFS AGDGGLPGPDYGQDFAAHPAG AGALYKCRDLINDNILRTVSCQ SHDDGDIRGMAFARQ
25668	56036	A	25809	314	583	
25669	56037	A	25810	1	2982	

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25670	56038	A	25811	120	790	EGLKTKGEKASPPSCLSFCKNE FVISSTDYALSQSQSGGVMHRQ SFFLVPLICLSSALWAAPATVN VEVLQDKLDHPWALAFLPDNH GMLITLRGGELRHWQAGKGLS APLSGVPDVWAHGQGGLLDVV *APDFAQSRRIWLSYSEVGDDG KAGTAVGYGRLSDDLSKVTDF RAVFRQMPKLSTGNHFGGRLV FDGKGYLFIALGENNQRPTAQD HRVPSWYK
25671	56039	A	25812	707	1141	ASHTATSPRPVRLSSSIASITLAV NATCGMASSRRIR*CTLFSKRA PSAPAGWERAKSSSLNPRACMT AIASASPIIRVLTVLEVGAKCIG QGSRSDSTELSPFIKMVPPNSLT TALAVIPPFSLSDTLPEVLISLSLI YNTLF
25672	56040	A	25813	215	2160	EINSITSRLSIIPRSPCSASAGWT KKAGVPVLASVAAIFLPMWPD LPIPETTTLPSQCKMILAARTKS SPR/RSNIMTHIRIEKGTGGWGG PLELKATPGKKIVYITAGTRPAI VDKLAQLTGWQAIDGFKEGEP AEAEIGVAVIDCGGTLRCGIYP KRRIPTTNIHSTGKSGPLAQYIVE DIYVSGGKEENITVVGDATPQP SFVGPDYDTSEKLMIVRKKPIG VQMLYQVGTVSMLLYTRTIIQT KMTPRTIVTISHSVRNAGDSFFS IASNQPMPPTAKKIEPLAISLLS AEAPTRLSELKARIGEPRWSIEA IKPMPISTHKPNMQAITPPARRA ILSPCACESRSRQEPCPPGCHCS CPNHSCRSRLKGVLSMEQYLL QQKHVGTPPGPFRPPDTNQPCW KTKPSQREEYTRRVGFTGHSNQ GAKIIRTHIICRRRTSFALERPGD GFQAVVGGTVLMGLPRTKNVG LPVTILGRVHRRSSERFPRTSES AINRKDAGPKDPVRQRLAYKK HPMERRHGPHVVARTFGRAIPT LGPHRTVLSTRFQVAKNPLGPI GPSPLAVLTWTVPRPKNGRRG GKQRARIICQSRREASCNNVCL ARSSGVFKGFSPVSSSGEHTGN KYSAYSFSLCPLFVFLPLSGRLL

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25673	56041	A	25814	11	613	RLSSVFVSKSLASWRSCNCSFS GPLVRLTIRP\LSPPDVRLLLSPS VVHAYNCPHQETQRHHTHHLT P/RLPNHGQ\AISAMVYSSPATN/ SMLRQLLIQHVEQIGSVPLVMD AISLVEAHD/RSAAG*SRPLY*R AN*SSRY*VSYARKRVRQAKSR /HGKPSKKVLAKRAVPNRVCRC CNRVKRRCICQPKRRKCMTLPV RATR
25674	56042	B	25815	1	1920	
25675	56043	A	25816	247	1182	EAVMRQTKTGILLANLGTPDAP TPEAVKRYLKQFLSDRRVVDTS RLLWWPLLRGVILPLRSPRVAK LYASVWMEG\GSPLMVYSRQQ QQALAQRLPEMPVALGMSYGS PSLESAVDELLAEHVDHIVVLP LYPQFSCSTVGAVWDELARILA RKRSIPGISFIRDYADNHDYINA LANSVRASFAKHGEPDLLLLSY HGIPQRYADEGDSLRELYAVA NPNPGPGMGVLLAYMFFGRGS AKQSAGGSGLDGLLRRTPPITP GGYFSVFVWKSLGSWRSCNCS FSGPLVGLTIRPRFTAGRSPTSF AQRCTCL
25676	56044	B	25817	1	651	
25677	56045	A	25818	1	1647	
25678	56046	A	25819	1	1506	

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25679	56047	A	25820	645	2161	LDRCALNVTAQPSIECQVANAC LSPKGEFEYLQIDAPTPQALLSE IEKCWHRHRNVWPDHTINLAL AIHGQVDPVTGVSQTMPQAPW TTPVEVKYLLEEKLGIRVMVDN DCQLHYCKTAILNWSRKMALS RQKFTFERLRRFTLPEGKKQTF LWDADVTTLACRATSGAKAFV FQSVYAGKTLRMTIGNINDWKI DDARAEARRLQTLIDTGIDPRIA KAVKIAEAESLQAESRKTKVTF SVAWEDYLQELRTGISAKTKRP YSTRYIADHINLSSRGGESPGLG LLLAFTLFGKGMSKRSAPGAMI IHFLGGIHELYFPYVLMKPLTII AMIAGGMSGTWMFNLLDGGL VAGPSPGSIFAYLALTPKGSFLA TIAGVTVGTLVSFAITSLILKME KTVETESEDEFAQSANAVKAM KQEGAFSLSRVKRIAFVCDAG MGSSAMGATT\FRKRLEKAGL AIEVKHYAIENVPADADIVVTH ASLEGRVKRVTDKPLYGPAVV
25680	56048	A	25821	2	341	
25681	56049	A	25822	218	469	LICAQGRRSPSRESTRQPKVLTL ACHNGSVSVVVLSPNSLYIEVV VPS*CNAATGPVVTCLYKGKFQ PILILLVTSTRVSSCI
25682	56050	A	25823	1	3966	
25683	56051	A	25824	2	728	
25684	56052	A	25825	528	1123	DAEEGPDHRYLSSAHGGGSAS QPPSCAVTACRWPWRGRGCRA GVWNQPTAAQGRSWPVGKTSC *GQGSTCKSQTWGFRGQRLPQ DAPAPPASLCASFHLVEAGASA DSGDTRRMTIR/FASKTVARAK RIIRVLRFSPLWVATRSLASTAI KIACCASEPGSFLQLWKPRSMA PVHRCTWHEACPEGQRQMSCV SSTGL
25685	56053	A	25826	1	492	

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25686	56054	A	25827	1740	3858	ADAAGTEKTATVSRYHFYLRY PRSGRSVIDVRSWWRFSIMDAL SRSIPRAISICARGKPVVTAKFK QGTMPEPSNKAIILPIRFFPGVV LMIIKKSGGRWQLSLLASVVIS AFFLNTAYAWQQEYIVDTQPG LSTERYTWDSDHQPDYNDILSQ RIQSSQRALGLEVNLAEETPVD VTSSMSMGWNFPLYEQVTTGP VAALHYDGTTTSMYNEFGDST TTLTDPLWHASVSTLGWRVDS RLGDLRPWAQISYNQQFGENI WKAQSGLSRMTATNQNGNWL DVTVGADMLLNQNIAAYAALT QAENTTNNSDYLYTMGRTRWL TLIGTIITQFALGSVYTWSLFNG ALSAKLDAPVSQVAFSFGLLSL GLAISSSVAGKLQERFGVKRVT MASGILLGLGFFLTAHSDNLM MLWLSAGVLVGLADGAGYLL TLSNCVKWFPERKGLISAFAIGS YGLGSLGFKFIDTQLLETVGLE KTFVIWGAIALLMIVFGATLMK DAPKQEVKTSNGVVEKDYTLA ESMRKPQYWMLAVMFLTACM SGLYVIGVAKDIAQSLAHLDVV SAANAVTVISIANLSGRLVLGIL SDKIARIRVITIGQVISLVGMAA LLFAPLNAVTFFAAIACVAFNF GGTITVFPSLVICGSIIASLFGGFY VTFYVIFALLILSLALSTTIRQPE QKMLHFTYLTTSALFPAGPKRN
25687	56055	A	25828	2	356	
25688	56056	A	25829	1	1307	MYETLEEVLRSSGDPADQKYV ELKARAEKALDDVKKRKLYC WRRRQICALRRISRSPYPGHQL ECIASFDRNFEAMQKEMYGQF ENTFMMYLPRLCEHCLNPSCV ATCPSGAIYKREEDGIVLIDQDK CRGWRLCISGCPYKKIYFNWKS GKSEKCIFCYPRIESGQPTVCSE TCVGRIRYLGVLLYELTAQQFF PVWPPDHFVHPF*TLYVLPAPP SR*CDRVQLMASLQSVARASRE YRWYGFSR*TPRKALALAQLRP AESSPTAPDCN

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25689	56057	A	25830	583	1369	RHQLNSIASPAGGRWKDIGWF NFPQSNLCLKREKQDESCSLTQ ALPSELKVSADNVSLTGAVSLA SMLTEIFLLQQAQGMPEPGWG RITDSHQWNTLLSLHNAQFYLL QRTPEVARSRATPLLDLIKTALT PHPPQKQAYGGTLPLPVRFMA GPDTNLANLGGALKFNWTLPG QPDNTPPGGELVFERWRRLSDN SQWIQVSLVFQTLQQMRDKTP LSLNTPPGEVKLTLAGCEERNA QGMCSLAGFTQIVNEARIPACS
25690	56058	A	25831	199	543	
25691	56059	A	25832	1	642	EASIFRRLSVYDNLMAVLQIRD DLSAEQREDRANELMEEFHIEH LRDSMGQ*SARPGRCRAGAQ* CV*CR*PRSGQPRQTVRRAE*IS DSQPVRGQFLHG/VRSPPESDCP MLSRRCSM*NSSISSFARSSRCS ADKSSRICSTAIRLS
25692	56060	A	25833	3	329	
25693	56061	A	25834	1974	2195	
25694	56062	A	25835	1	615	
25695	56063	A	25836	2	166	
25696	56064	A	25837	2	189	STPGNWRFTITYPLNCATRWK M*FLIVATMAPSVYWSLPRNIA AAKPTTPPTPSRRSGARGK
25697	56065	A	25838	64	354	
25698	56066	A	25839	1123	1845	
25699	56067	A	25840	1120	2097	
25700	56068	A	25841	124	548	CRQMVGTRRGGEQGKEVIDGY GKPATFYQMQDNGKPVEGHAS QMHYELAKDFVVLTGNAYLQ QVDSNIKGDKITYLVKEQKMQ AFSDKGKRVTTVLVPSQLAKA YKG\VAW*KTSA*PSTPGKLSV CWGQTVPVRPPLSTWL
25701	56069	A	25842	77	514	
25702	56070	A	25843	2487	5738	RRAAGLPGRNDAGLARSHQWA GSADTGSEKQHELQLRIQGEPV SGQLNLAGSFDRKEERWKG\TL SNTRFQTPVGPWSLTRDIALDY RNKEQKISIGPHCWLNPNAELC VPQTIDAGAEGRAVVNLNRFD LAMLKPFMPETTQASGIFTGKA DVAWDTTKEGLPQGSITLSGRN VQVTQTVN\DAALPVAFQTLNL TAELRNNRAELGWTIRLTNNG QFDGQVQVTDPQGRRNLGGNV NIRNFNLAMINPIFTRG
25703	56071	A	25844	538	777	

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25704	56072	A	25845	489	2797	TRRRRRTMIALIQRVTRASVTV EGEVTGEIGAGLLVLLGVEKDD DEQKANRLCERVLGYRIFSDAE GKMNLNVHQAAGSVLVVSQFT LAADTERGMRPSFSKGMSQLP GLSRETRESIAMYHLRVPQTEE ELERYYQFRWEMLRKPLHQPK GSERDAWDAMAHHQMVVDEQ GNLVAVGRLYINADNEASIRFM AVHPDVQDKGLGTLMAMTLES VAPYFSGSETGMMTLNRYRLR HMAKQGNRSAKRVEKLLRKPD RLISLVLIGNNLVNILASALGTI VGMRLYGDAGVAIATGVLTFV VLVFAEVLPKTIAALYPEKVAY PSSFLLAPLQILMMPLVWLLNA ITRMLMRMMGIKTDIVDMLLS VLDLEKM/TVDDIMLPRSEIIGI DINDDWKSIL/R/QLSHSPHGAIV LYRDSLDDAISMLRVREAWRL MSEKKEFTKETMLRAADEIYFV PEGTPLSTQLVKFQRNKKKVGL VVNEYGDIQGLVTVEDILEEIV GDFTTSMSPTLAEEVTPQNDGS VIIDGTANVREINKAFNWHLPE DDARTVNGVILEALEEIPVAGT RVRIGEYDIDILDKLSFCFRYSN HRRTNRTTIQRITFLHNAQYVT WRNVIRFHHCDGLMHIRVQWD VSFGDHFNAKLTHNIQHRLQRQ LNAFNHRRHIRVSFISHFQRTIQ AINHRQQFVDEFLQREFVGFFNI
25705	56073	A	25846	87	199	QPASVQTAGAGCRL*LHQRQW RECLVLDSKRRGDGVL

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25706	56074	A	25847	1167	3306	GKSMDKELPWLADNAQLELK YKKGKTPLSHRRWPGEPVSVIT GSLIQTLGDELLQKAEKKKNIV WRYENFSLEWQSAITQAINLIG EHKPSIPARTMAALACIAQNDS QQLLDEIVQQEGLEYATEVVIA RQFIARCYESDPLVVTLQYQDE DYGYGYRSETYNEFDLRLRKH LSLAEESCWQRCADKLIAALPG INKVRRPFIALILPEKPEIANELA VPALREFLAATKMPATCTLKGL GAVEADYPYYLGMLGMHGTK AANFAVQECDLLIAVGARFDD RVTGKLNTFAPHASVIHMDIDP AEMNKLRQAHLRDEHSWRYD HPGDAIYAPLLLKQLSDRKPAD CVVTTDVGQHQMWAAQHIAH TRPENFITSSGLGTMGFGLPAA VGAQVARPNDTVVCISGDGSF MMNVQELGTVKRKQLPLKIVL LDNQRLGMVRQWQQLFFQER YSETTLTDNPDFLMLASAFGIH GQHITRKDQVEAALDTMLNSD GPYLLHVSIDELENVWPLVPPG ASNYKKHHKLKQTFGVKIIPDV HDPSQAQPVADVVNVIQLPAFL ARQTDLVETHGENRPGQMGNI VDKFKEGGNEKVILCDRGANF GYDNLVVDMLGFSIMKKVSGN SPVIFDVTHALQCRDPFGAASG GRRAQVAELARAGMAVGLAG LFIEAHPDPEHAKCDGPSALPL
25707	56075	A	25848	1	695	MATRASVTPMSLFSAGTCLLST SCVLSPVGDTAEESCWQRCAD KLIAALPGINKVRRPFIALILPEK PEIANELVGLECPRTHFHSKEW LKVVANDPTAVRKLEHYWSQD IFSDREASYMSHENHFGYAACA ALLREQGLAAIPRLAMYAHKE DCGSLLVQINHPQVIRTLLLVA DKNKPSLQRVAKYHKNFPHAT LAALAELLALTEPPA/RPWLSN HRRQKAACTAKSTR
25708	56076	A	25849	823	1091	CVRFARINCSDRRSRCFAGFNH VLNKALGVHINHFG/YSACAP* CRYPPHAAGEFYPDPCRHKGTT GYRHRQGYPPPGEPPPRASWLD LR
25709	56077	A	25850	714	875	EFSSARISRTSRLKYTNGCCRL WSAFCRLRTATTVPPARP*QLR PDRSRAQCQ

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25710	56078	A	25851	2730	2893	WPVGERLAPGDYPVI*TGQLCT AAGD/EWRR*KVRRHQPLWRG FPNRRYMAWRSA
25711	56079	A	25852	750	929	SFHPAGRRYLYRHSSRSGNITN GCCRLWSAFCRLRTATTVPPAR P*QLRPDRSRAQCPV
25712	56080	A	25853	2	2427	CRQHHRWHSGSTAVYRRVLITS KCWNVFIRTKTWTVSILTTSVV CASARRVCVPAPRAVSSRCLSV TTLIPSASTPW*LAHRISLAAR* AFWFNCRIPAGIDNVKVLERIH PDKDVDGFHPYNVGRLCQRAP RLRPCTPRGIVTLLERYNIDTFG LNAVVIGASNIVGRPMSMELLL AGCTTTVTHRFTKNLRHHVEN ADLLIVAVGKPGFIPGDWIKEG AIVIDVGINRLENGKVVGDVVF EDAAKRASYITPVPGGVGPMT VATLIETRYRQGKMFDGSSIGG WKGINESDMVLMPDASTAVID PFFADSTLIIRCDILEPGTLQGYD RDPRSIAKRAEDYLRSTGIADT VLFGPEPEFFLFDDIRFGSSISGS HVAIDDIEGAWNSSTQYEGGN KGHRPAVKGGYFPVPPVDSAQ DIRSEMCLVMEQMGLVVEAHH HEVATAGQNEVATRFNTMTKK ADEIQIYKYVVHNVAHRFGKT ATFMPKPMFGDNGSGSPPSQPQ SQPTPPEILLQALLSAGCFYAVY YVTYKTRLRKRVADVPRRPLFT MNRVETNLTWVILMGIALVSV GIFFMHNGFLLFRLNSYSQIFSS EVSGVALKRFFYFFIPAMLVVY FLRQDSKAWLFFLVSTVAFGLL TYMIVGGTRANIIAFAIFLFIGII RGWISLWMLAAAGVLGIVGMF WLALKRYGMNVSGDEAFYTFL
25713	56081	A	25854	502	885	
25714	56082	A	25855	233	738	SNSCKRTKIISDVTSVFHAIFPAI KITAPNSPRLRVNDSATPLTSAG ESSGSTTLQKLCQRVAPSVSAA SSYSGPNLFQHRLHGTHPKRNA GKGHSHRNPQPCIGDFDIKLRQ PFTVKTLYVKEKGQR*GGDRV LPAQRVNPSAHQAACGLGSDS GLGSTPSADRKRR

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25715	56083	A	25856	1	2363	MRRQDTGRRGRKRRDAGRWQ WRYWGKGSFTPMNATWDVAG KGEWHDSTITLTDLSTGFDQLQ YGTMTVEKPRLILDKPIVWVRD AQHPSFSGALSLDAGQTLFTGG SVLPPSTLKFSVDGRDPTYFLFK GDLHAGEIGPVRVNGRWDGIR LRGNAWWPKQSLTVFQPLVPP DWKMNLRDGELYAQVAFSAA PEQGFRAGGHGVLKGGSAWM PDNQVNGVDFVLPFRFADGAW HLGTRGPVTLRIAKQRKEMRN NNLRQFKLLGPDVGFDSINDRP MAEELSKLLSKQNEENLLPKTI LYCLNPRDNEVLGTMIENGASF AANPLYFDPKNIVELAIEAGCN CVASTYGVLASVSRRYAHRIPF LVKLNHNETLSYPNTYDQTLY ASVEQAFNMGAVAVGATIYFG SEESRRQIEEISAAFERAHELGM DGGWIGLMIKPLGRWSLIMEID EGFAVGMSPAELSAEQLLSKL WLWEGKAERYGWGRKSMDKE LPRLADNAQLELKYKKGKTPLS HRRWPGEPVSVITGSLIQTLGD ELLQKAEKKKNIVWRYENFSLE WQSAITQAINLIGEHKPSIPART MAALACIAQNDSQQLLDEIVQ QEGLEYATEVVIARQFIARCYE SDPLVVTLQYQDEDYGYGYRS ETYNEFDLRLRKHLSLAEESCW QRCADKLIAALPGINKVRRPFIA
25716	56084	A	25857	1	4440	MNRFDGAKQNVVGADAHHLA DTAVKRNQSLFQLRASGHPRLP AGGGKAVFHGRFAAKKIEAVA FYFRHLIALLVVQMHFKLVKG NVDVVFTAQLIDSTVQLIDSTTT VTQFTHIQTQLMRSVEWLTDN GSCYRANETRQFARMLGLEPK NTAVRSPESNGIAESFVKTIKRD YISIMPKPDGLTAAKNLAEAFE HYNEWHPHKAGTLTNEQWQQ VTAELHDRMMETVFFALDDAE QLFAHHQPTPVTSVDLLGQG

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25717	56085	A	25858	1	3705	MEEYGGVDVRLYRIPDPMAFL RQQKNLHRIVVQPQYLGDGLN NTLTWLWDNWYGKSRRVMQR TFSSQSRQNVTQALPELQLGNA IIKPSRYVQNNQFSPLKKYPLVK QFRYPLWQAKPFEPQQGSRGL YLVEAMVGGYRATTGGVVSDT VALSKVSSKELLVWTAGKKQV NEPGSEIFGLTALRITAENQDCA SLTPETFLPRIHVIKGVNISTATV CRQCEDAPCANVCPNGAISRDK GFVHCEARTLHLFAKT
25718	56086	A	25859	123	923	TDSPYERGHLMSNLLGPRDAN GIPVPMTVDESIASMKASLLKKI KRSAYVYRVDCGGCNGCEIEIF ATLSPLFDAERFGIKVVPSPRHA DILLFTGAVTRAMRSPALRAW QSAPDPKICIS\YGACGNSGGIF HDLYCVWGGTDKIVPVDVYIP GCPPTP\AATLYGFAMALGLLE QKIHARGPGELDEQPAEILHGD MVQPLRVKVDREARRLAGYRY GRQ\VADDSFTQLGQGEEQVAR WLEAENDPRLNEIVSHLNHVVE
25719	56087	A	25860	1337	1516	KLKSKSAKRHKFITPILAWRILI HYLQRVAV*WGSRLL*LFLITIP SRWRLLPHNTGKG
25720	56088	A	25861	1	545	MARLAALKACETVYSMGVRSH RRSPLEHLWQLKDQLVNEGEL VLETLVIDGDENTVLVPGDRYA QMRNVYFIPSALALKNWLKKC GFVDIRIADVSR/ITTTEEQRRTE WMVTESLADFLDPHDPGKTVE GYPAPKRARNRNRAEDHRQRL RHRTRKKQTHGQRRRHRPEPA QRQPQTGTTD
25721	56089	A	25862	620	1117	
25722	56090	A	25863	1	1188	
25723	56091	A	25864	231	407	
25724	56092	A	25865	1	501	
25725	56093	B	25866	1	2373	
25726	56094	A	25867	1	2211	

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25727	56095	A	25868	2093	3589	GGINGKNFWFFLSPFTPCVGRC HSRVQLANSHLVDVDETPPSSA AVHLYATDADSIGNCGTDREFC PCNPIRRHAFCCERLQNGYHRS GYAFHLGHYGDRKVITNFYSLI AKNHLSHWLETLPAQIANWQR EQQHGLFKQWSNAVEFLPEIKP YRLDLLHSVTAESEEPLSAGQI KRIETLMRNLMPWRKGPFSLY GVNIDTEWRSDWKWDRVLPHL SDLTGRTILDVGCGSGYHMWR MIGAGAHLAVGIDPTQLFLCQF EAVRKLLGNDQRAHLLPL/GIE QLPALKAFDTVFSMGVLYHRR SPLEHLWQLKDQLVNEGELVL ETLVIDGDENTVLVPGDRYAQ MRNVYFIPSALALKNWLKKCG FVDIRIADVSVTTTEEQRRTEW MVTESLADFLDPHDPAIFQIWP CTFMHAYHAFFDPVSHHRACQ NLTTFVPDTHQIAIRNTKACSIF VSFALRTTHSCAISHSSLEDPPAI LFKIADRMEQNLELLATAGNLG
25728	56096	A	25869	231	1785	DDEVHRYSELRTRTVPSYPPER SGEAKTAAQRAGTAFRRGRGA GVPFNLQQRSDRWCS*RSQQN A*RLIGLHGQNSRSVPQLPMES ASVA*RCGSIIEKTTLSSRPFYW CPGCQHYADRFGA

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25729	56097	A	25870	1818	3311	RMAIQFRTLSLRWCWKISLVSS FTVVKAMTIRIVAMRQLLRQQ KQRTFVC*SS/TVDGVLSDGLIY MGNNGEELKAFNVRDGYGIRC ALTSDIEVAIITGRKAKLVEDR\ LPHWGSLTCIRGSQTN*SPLAIC WKNWRLP/QENVAYVGDDLID WPVMEKVGLSVAVDDAHPLL GTEIDAYIENADYQYNKKRLRE IDRRVRYLTKCLENLKIVDYSP QQEGKVFFGAWVEIENDDGVT HRFRIVGYDEIFGRKDYISIDSP MARALLKKEVGDLAVVNTPAG EASWYVNAIEYVKPRLNQTVR LILEHEMGQVWISGEISNFTQP ASGHWYFTLKDDTAQVRCAM FRNSNRRVTFRPQHGQQVLVR ANITLYEPRGDYQIIVESMQPA GEGLLQQKYEQLKAKLQAEGL FDQQYKKPLPSPAHCVGVITSK TGAALHDILHVLKRRDPSLPVII YPAAVQGDDAPGQIVRAIELAN QRNECDVLRPCVWCRRVRCRR
25730	56098	A	25871	1	3465	
25731	56099	A	25872	1	3126	
25732	56100	A	25873	1	1722	MSSLSQAASSVEKRTNARYWI VVMLFIVTSFNYGDRATLSIAG SEMAKHIGLDPVGMGYVFSAF SWAYVIGQIPGFVDIFSGFGIIV ALFTLRFLVGLAEAPSFPGQSRI VGDWFPAQDRGTGVSIFTPFIL RKGDLRPIWVVILMAGQLHAL MSTLEDTPFSNKAGMRLRRWI NAAVMRLNPLACLATRSNQVN WLLLTGNISVYPVGSSEPTRRR STPINSTPHFNKTILPINARYSPT LPSSDGTRWTTRIDDKPTVGHK FARYWDVELREIP\MRPG\QLFR DPKRMIEGCAENPL\GV\VPTFG VTYAGNYEFPQPLPDALNKFQ ADPGIDIDMHIDAASGGFLAPF VAPDIVWDFRLPRVKSISASGH KFGLAPLGCGWVIWRDEEALP QELVFNVDYLGGQIGTFAINFS RPAGQVIAQYYEFLRLGREGYT KSTQPARGSPPANNCQAQPETP DRAVIHPTDGYESAATIIVLSPP TASDSDPAHRDQRVVKTDAWS VVPGSTSEYPRRYKAEWFCQPF AVLPAILAWSAALWRYQPRAR RRKADYGCRALNSLKNELTTP

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25733	56101	A	25874	1	2385	
25734	56102	A	25875	1	1767	
25735	56103	A	25876	1	2079	
25736	56104	A	25877	368	1261	TSPRARPAAQGSRGAFL/HLTE KGVNRFAFYGLPESSGKRWAT EREYAFRQLVAEEKYRGVVYQ GLETAPENWQHAQNRLADWL QTLPPQTGIIAVTDARARHILQV CEHLHIPVPEKLCVIGIDNEELT RYLSRVALSSVAQGARQMGYQ AAKLLHRLLDKEEMPLQRILVP PVRVIERRSTDYRSLTDPAVIQA MHYIRNHACKGIKVDQVLDAV GISRSNLEKRFKEEVGETIHAMI HAEKLEKARSLLISTTLSINEISQ MCGYPSLQYFYSVFKKAYDTT PKEVFAIVNSEVML
25737	56105	A	25878	1	868	MTSLKNSMKWDEERFGLEYDL DIYMIVAVDFFNMGAMENKGL NIFNSKYVLARTDTATDKDYLD IERVIGHEYFHNWTGNRVTCRD WFQLSLKEGLTVFRDQEFSSDL GSRAVNRINNVRTMRGLQFAE DASPMAHPIRPDMVIEMNNFYT LTVYEKGAEVIGM\TPPLFGQE NFQNVILTCALEDPTRKVVLKP LCRPPLSLCNRRKRVMCRIFTSS ASTLRLSRRCAVCWNSRITVSM RSSRRVTSVWLSAPTPIILSPAIF IVRWWLLDSNPLIYYKAWSCW CSRK
25738	56106	A	25879	2097	2512	NTPVRPDVGT*TEEHGGAESGE *RNSRELRENDKA*LHQYHAQP DGKNLAEAFEHYNEWHPHSAL GYWRTVD/DMRGR*PQEPSLMI RAGRSSSPVQWQRIPLLIPGRKG DRMQKTVIPGSLFAGMPYAQPS IKTELAG

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25739	56107	A	25880	71	2613	QRKPTSSRKGLSARMMSGLTG TITTVSTGWCTTRGHNMKSRW SKVAIFTTR/SGRRVAKRVWRR ERDLTGWMSLSRKPQVTWYG WDGDRLTTIQNDRSRIQTIYQP GSFTPLIRVETATAVRRRRRWQ WGIPAGTVQMLDRLESEILADR VSEESRRWLASCGLTVEQMKK TSIHASIVRHKLLTAEQALKLLG EMFVYHMPFNRALGMELERYE KEFAQLAFKNQPMMVGNWAQ SILHGGVIASALDVAAGLVCVG STLTRHETISEDELRQRLSRMGT IDLRVDYLRPGRGERFTATSSLL RAGNKVAVARVELHNEEQLYI ASATATYMSKSMFLAVATILIS KSSLSRLRRPSTIVCGIPISSISAN ITPGRSLRSSSSTSKTLCTQFAV QFLSKLLYAEGFVHVHRQNRH LERRDSVRPYDASFVVVLLNRR SYHTRYPDTVATHRQDLVTAIF TLYGGFQCFGVLGTQLEDVTNF DTTFDQQPTLAIRAWIASHHVT DICNFRGSDIAIPVDAEVVFTID VSTSSEITHRRNVDLFPDQLTVT RSQTFTAYERLSTALTVAQVCG VQRLCNYYSARLTPLPGPDSTR ESNHRLAQITQYARQLASSPSII DNRSRQHLNDVGLTAWDCVIIS QIIGFIGFQARTIATFQAYLGHP VRWLPGLEIQNYADASLFADES LRWRSSYEVEKLPEEHTKSSTA
25740	56108	A	25881	71	3478	CCLSSHPSTTATALRSLSPVRK WPKISALIPWEWAMCSLLSHGL MLSGRSLVAWCWTVI.VQNAS TSGRSLSGRCLPCCKASSISLVD SALSFLLFTLRFLVGLAEAPSFP GNSRIVAAWFPARKGTGIINEMS PALANTALEGLGGSGDALCTQC EAEGFRHITYYLDRPDVLARFT TKIIADKIKYPFLLSNGNRVAQG ELENGRHWVQWQDPFPKPCYL FALVAGDFDVLRDTFTTRSGRE VALELYVDRGN

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25741	56109	A	25882	90	629	PGDWGRRQLIGS*KTPGSVFKK GKSSTPN\DPFLKDKTQDRSGL ATFTMDGQI\RLFYQ\DISGNHS GK\QSLPPAQVIVSNSVDHLKIT GVEDHKPIFAGAGKPYQNLRQF IDEGNYTSGDNHTLRDPHYVED KAHKYLV/FEANTGTENGYQG EESLFNKAYYGGGTNFFRGSSR VDLQAC
25742	56110	A	25883	1	3066	
25743	56111	A	25884	104	547	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIV MALSPRGWRSKFGMPVDSKGP PWLFKFLKNGLNFLLIISVGTRD LSRLSTILSPLYNTVAPGAN*CR ELKLVLDADDVLSTEVKRVITS SASNITPAFFCS
25744	56112	A	25885	3	4288	
25745	56113	A	25886	2	2222	DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSLP QHTIPDVFIWMLS\NNRRVAYA RIASKDLLYSPVAGQMGKHCG KIKTHFLKIPKQQQNEKYQVPQ FDQSTIKNIESAKGLDVWNSWP LQNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKDFRLL GQTSVDRLLQLSQGQAVKGNQ LLPVSLVKRKTTLAPNTQTASP RALADSLM\SWHDRFPDWKAG RILPISEPPSNRIFACWGKPAWT ACCNSLRARR*RAISCCPSHW* KEKPPWRPIRKPPLPARWPIH*C SWHDRFPDWKAGRKGSDAHRF GSWKFQLQRVSG\SATFTWGG KIR\LYSADYSGNHYGKQSLPS GQVNGSNSDDTLKINGVEDHK TILDGDGKTYQNVQQFIDEGNY TSGDNHTLRDPHYVEDKGHKY LVFEANTGTENGYQGEESLFNK AYYGGGTNFFRKESQKLQQSA KKRDAELANGALGIIELNNDYT LKKVMKPLITSNTIRKSDGTLQ EHDGICEIHVAKYAEIFGLTSAE ASKDIRQALKSFAGKEVVFYRP EEDAGDEKGYESFPWFIKRAHS PSRGLYSVHINPYLIPFFIGLQNR FTQFRLSETKEITNPYAMRLYES LCQYRKPDGSGIVSLKIDWIIER YQLPQSYQRMPDFRRRFLQVC VNEINSRTPMRLSYRMGVRGK
25746	56114	B	25887	1	2640	

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25747	56115	A	25888	1291	1629	
25748	56116	A	25889	1187	2925	NSLQRSHPNAANS/WHNKLWR SHSDSDLSDHHEPICKPGLELN KKDITTSADQIAEVKTMESHPPI PPVFVEHMVPQDANQKGLCTK ERMICLEFTSREFHAGQIEDELN LNDINGCSSGSTLEDPQFNDDSP EARKITRRWRIGEAADLVGVSS QAIRDAEKAGRLPHPDMEIRGR VEQRVGYTIEQINHMRDVFGTR LRRAEDVFPPVIGVAAHKGGV YKTSVSVHLAQDLALKGLRVL LVEGNDPQGTASMYHGWVPD LHIHAEDTLLPFYLGEKDDVTY AIKPTCWPGLDIIPSCLALHRIET ELMGKFDEGKLPTDPHLMLRL AIETVAHDYDVIVIDSAPNLEDP RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLLTGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLKQQASNLHEQKKAGVIFEAE EVITLLTSVL
25749	56117	B	25890	1	1954	
25750	56118	A	25891	1	454	MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEVYTK VFALDVAARHRAIR\VPRQQGD YRTRIWKFEDGLSNVLVIQLNK LIICVMCLVRDCDVLKTYFHL
25751	56119	A	25892	10	144	FLFIGKGFLKGIT*PGQIVQRG*E KKSNT*FRQFGGVDTAGNNLT

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25752	56120	A	25893	888	892	TVDLDACTKGVLTFTTALLAG GANQAFAKENTKKAYKETYGV SHITRHDMLQIFKQQQNEKYQV PQFDQSTIKNIESAKGLDVWDS WPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGRVFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTSGDNHTLRDPHYV/EDKGH KYLVFEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFTDSRGSK MTIDDLWKFELENDDLEYLVE ENSKQKTIQDVIWLFLTAYTHI RGATQAFAKENNQKAYKETYG VSHITRHDMLQIPKQQQNEKYQ VPQFDQSTIKNIESAKGLDVWD SWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGRVFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQVNVSKSDDTLKINGVEDH KTIFDGDGKTYQNVQQFIDEGN YTPGDNHTLRDPHYVKTKAMR

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25753	56121	A	25894	1424	3807	HPLWKWLEGDMNMNIKKIVK QATVLTFTTA/LLAGGATQAFA KENNQKAYKETYGVSHITRHD MLQIPKQQQNEKYQVPQFDQS TIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNSIDS WKNAGRVFKDSDKFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHYGKQSLTTAQVNV SKSDDTLKINGVEDHKTIFDGD GKTYQNVQQFIDEGNYTGDPL EAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLKIDWIIERYQLPQSYQRT PDFRRRFLQVCVNEINGAVIGIP CVSIRKPDGSGIVSIKIAWIIERY QPPQSYQRMPDFRRRFLQSRPA CMHDWLCAEALAWSIQTASYL VTMQVNLTSLSSDTDRDLSVVS NSGWVSSGSLVRFNTIKTSSGEI KRTVPRILPDPDDPRSAIAEAPS EMPGHEVPVEEHFPEAGTNSGS PQGARKGDESMTKASDSSSPSC SSGPRVPKGAAPGSQTGKKQQS TALQASTLAPANLLPKAVHLA
25754	56122	A	25895	3	2356	
25755	56123	A	25896	1	2610	
25756	56124	A	25897	1	2496	
25757	56125	B	25898	1	3198	
25758	56126	A	25899	1	5274	
25759	56127	A	25900	1	585	
25760	56128	A	25901	1	2469	
25761	56129	A	25902	1	1914	
25762	56130	A	25903	1	2259	
25763	56131	A	25904	1367	1959	KLVTLHMDLSWR\NSGYQSQE T*K*PANRPVKRPH*GGI*\FSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSF/DGEGSIYSR*A HGAA*PSHRKDRESADLGSDG QNDKGH\QYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESHKLQQSAKKLDAELSNGA LGFIE

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25764	56132	A	25905	1	2418	
25765	56133	A	25906	3	1918	
25766	56134	A	25907	1242	1463	
25767	56135	A	25908	1907	5097	TSKKIVKQAPVLTFTTA/LLAGG AIQAFAKENNHKAYKETYGVS HITRHDMLQIPKQQQNEKYQVP QFDQSTIKNIESAKGLDVWDSW PLQNADGTVAEYNGYHVVFAL AGSPKDADDTSIYMFYQKVGD NSIDSWKNAGRVFKDSDKFDA NDPILKDQTQEWSGSATFTSDG KIRLFYTDYSGKHYGKQSLTTA QVNVSKSDDTLKINGVEDHKTI FDGDGKTYQNVQQFIDEGNEGI LPISEPPIKQDFRLLG
25768	56136	A	25909	610	2303	SLPNLDNAAICSSSSSPTRTR*SL SEGATQAFAKEKYPHKHTKKR SGVFHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKALDV WDSWPLQNADGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDNSIDSWKNAGRVFKDS DKFDANDPILKDQTQEWSGSA TFTSDGKIRLFYTDYSGKHYGK QSLTTAQVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYRGPLESPSTHQAEFNPTS CVSSLGTLQGFPAPAWLALAHP VHPLKHKSGGSNRLSAAIWGIK RKPARVCPGTGIIHASSQIQGEW RTECAVGPKAKAKATAGWRR GNNQHISSTYDINRADTQVRRA VNNYDIIVMSNSFNGQSEHQTY ESIVIDSAPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEPDVRILLT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTGAWRNA LSIWEPVCNEIFDRLIKPRWEIR
25769	56137	A	25910	1	2103	

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25770	56138	A	25911	1	2124	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKANKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFFKR GAIFRVHKHAVNPMSPKCRRPG GRQAYPLVNWEDRNGRSQKTV HTEGDMNMNIKKIVKQATVLT FTTALLAGGATQAFAKENNQK AYKET/YPKQQQNEKYQVPQF DQSTIKNIESAKG\LDVWDSWP LQNADGTVAEYNGYHVVSALA GSPKDADDTSIYMFYQKVGDN SIDSWKNAGRVFKDSDKFDAN DPILKDQTQEWSGSATFTSDGR RSLESTTTAARPIWRKDVGGDQ TQEWSGSAPFTSDGKIRLFYTD YSGKHYGKQSLTTAQVNVSKS DDTLKINGVEDHKTIFDGDGKT YQNVQQFIDEGNYTSGDNHTL RDPHIYVEDKGHKYLVFEANTG TENGYQGEESLFNKAYYGGGT NFFRKESQKLQQSAKKRDAEL ANGALGIIELNNDYTLKKVMKP LITSNTVTDEIERANVFKMNGK WYLFTDSRGSKMTIDGINSNDI YMLGYVSNSLTGPYKPLNTTG LVLQMGLDPNDVTWASLEPHE SFQWVRGLASSGVKLQTSVVL QLIKAMWTQRVSSSKVYCKEQ MNNASTMSKRTSAGCHCWQG
25771	56139	A	25912	1	3987	
25772	56140	A	25913	1	2235	

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25773	56141	A	25914	1	1950	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNSIDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTGSLNSSKTEKY QVPHIDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNSIDSWKNAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYL/VFEANTGTEEHPQPQ\ERP RTQSFTSAFAERRECIPNVPADT KLSKIKTLRLATSYIAYLMDLL AKDDQNGEAEAFKAEIKKTDV KEEKRKKELASKCLDLEQLGAS VEPTGNLRTKITKEKPRHTGPPE VVVPGCCPHRSRAYKSDKYAH TLTVTASQHAPPPPTHMEGFEL FHLPDLCSPSQDAQTTGRTQMK PDHSPRPSHRVPQAKGNNVVIT SYMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQGQLTV
25774	56142	A	25915	1	2448	
25775	56143	A	25916	1312	1974	
25776	56144	A	25917	2	1778	
25777	56145	A	25918	1366	2673	
25778	56146	B	25919	1	1938	
25779	56147	B	25920	1	2262	
25780	56148	A	25921	1	2100	
25781	56149	B	25922	7145	7154	
25782	56150	A	25923	2085	11232	VNSEGSEPADRKKPVHTEEAM NMTIKKIVKQATVLTLTTALLA EGATQAFAKENNQKAYKETYG VSHITRHDMLQIPKQQQNEKYQ VPQFDQSTIKNIESAKGLDVWD SWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKV GDNSIDSWKNAGRVFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQVNVSKSDDTLK\INGVEDH KPILDGGGKTYQNVQQFI
25783	56151	A	25924	153	293	

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25784	56152	A	25925	420	687	
25785	56153	A	25926	242	491	WLHVQPLHDEHHCWI*YPADT DGVRPAFQRSPALSPEHGCVPY TPARQGSVRSKGPCTSALLYVE CSIAAPDRKHSCHKSDQS
25786	56154	A	25927	2	113	
25787	56155	A	25928	779	862	NSTLPRCASTTFARY*AIPIKVFS ILP
25788	56156	A	25929	282	443	FSAGFLNLRYAQKFPSSYPPV** CYRPIVYPASDPCRNRLLYPAD VPYQALLD
25789	56157	A	25930	3	89	
25790	56158	A	25931	614	823	
25791	56159	A	25932	1229	1427	
25792	56160	A	25933	1965	2682	FAVPCRTSFGSIETVSHPGRDT* SA*AYRVQVDSHRPRLAHNVQ HRT*RGEVLLAGVPRHVAEREI ATLAGSFSLHEQNIHNLPRDQG PGNTVSLEVESENITERFFVVGE KRVSAEVVAAQLVKEVKRYLA STAAVGEYLADQLVLPMALAG AGEFTVAHPSCHLLTNIAVVER FLPVRFSLIETDGVTRQLLGVSY RILAMGHAEFLIQIADMRNDGG WRDFQFSGNLVMDEPNRSAQT YIKLVKSRLGTTKR
25793	56161	A	25934	261	563	RHSRGRSALRQISPEC*IHVCSPP PVQQLHPGYGNAIPLSYGHRNQ PDESDDAPVPPGWCQRYNLHQ KSTAHCGGYTIHADLVKTRCW LAPHRLPPGPGR
25794	56162	B	25935	1	1329	

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25795	56163	A	25936	761	3224	RGGAVTAKAPPDISAISALTAV KHGNCSSLTPLLNPPGSDVIVC AEMDEQWGYVGAKSRQRWLF YAYDSLRKTVVAHVFGERTMA TLGRLMSLLSPFDVVIWMTDG WPLYESRLKGKLHSNEGDAVL LEIEQEVSSVDSSFNSTLGPTFN TRTIQNAVLVKTGETVVLGGLL DDFSKEQVSKVPLLGDIPLVGQ LFRYTSTERAKRNLMVFIRPTII RDDDVYRSLSKEKYTRYRQEQ QQRIDGKSKALVGSEDLPVLDE NTFNSHAPAPSSRWALAQRIGV SRVDMQQHVRRPPVNLSPKRE NVIAGYLSNSVARKQRHIQTGT VFHQLMNLLRDGINIIFMNFKY QFIVYLHFLLSPKWVMYNRKC VNGMLLIASVPATWMLSRYRS SHRWIAKEIPMGKTQPLPILLLG /GGRRIGLALA\WHFIIQKQPVIV SYRTHYPAIDGLINAGAQCIQA DFSTTDGVMAFADELLKSTHG LRAILHHASAWMAEKPGAPLA DVLACMMQIHVNTPYLLNHAL ERLLRGHGHAASDIIHFTDYVV ERGSDKHIAYAASKAALDNMT RSFARKLAPEVKRQTATRAGH RGINQLSRYYRRALARQNQRR MVELRSLRFMYRHRPRSFVLW QATRLHRLNIAVRHRKPDARPL PAIQRNTDIAIKQPKRAVITGNH HRSTFVPTRLAQTGSEIRRHAM
25796	56164	A	25937	3	543	
25797	56165	A	25938	209	343	LSPPMSSFLATVFRSIAWLLTAK SIRYRTT*RWIRCAAVWLTMD
25798	56166	A	25939	547	640	
25799	56167	A	25940	174	583	
25800	56168	A	25941	2001	2610	DVLV\RKHNGHWTVELYSDSIP RLQINQHYASMCNNARNDGDS QFIRSNLQDAKWLIKSLESRND TLLRVSRCIVEQQQAFFEQGEE YMKPMVLADIAQAVEMHESTI SRVTTQKYLHSPRGIFELKYFFS SHVNTEGGGEASSTAIRALVKK LIAAENPAKPLSDSKLTSLLSEQ GIMVARRTVAKYRESLSIPPSN QRKQLV
25801	56169	A	25942	329	484	TRQLSLLVRMTL*AFVRKRRSS LA*KPLWSWLSSVKSQPGWKL MLARWKSF

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25802	56170	A	25943	1	1785	
25803	56171	A	25944	2493	2696	
25804	56172	A	25945	1	1861	
25805	56173	A	25946	456	700	
25806	56174	A	25947	1	2413	MPVIKVRENEPFDVALRRFKRS CEKAGVLAEVRRREFYEKPTTE RSRYDLVDRNNNIVLEYRKKEL VRLTLTDPVTGKSGEVKSLVSS LQTKYALKGYNVEATALEAAG GKVVTTGKDILVRKPTLDLPLE VRRKMWFKPFMQSYLVVFIGY LTMYLIRKNFNIAQNDMISTYG LSMTQLGMIGLGFSITYGVGKT LVSYYADGKNTKQFLPFMLILS AICMLGFSASMGSGSVSLFLMI AFYALSGFFQ\ST\GGSCSYST\IT \KWTPRRKRGTFLGFWNISHNL GGAGAAGVALFGANYLFDGH VIGMFIFPSIIALIVGFIGLRYGS DSPESYGLGKAEELFGEEISEED KETESTDMTKWQIFVEYVLKN KVIWLLCFANIFL\YVVRIGIDQ WSTVYAFQELKLSKAVAIQGFT LFEAGALVGNGCSYAQGMWG KTAETSDLQDLLIAALQGLSAW AVKAREYGIINHDVDSFAPRAF FSTLTNVNFDSPRIVGYAREAIA LREALKAQCLAVDANARVDNP MADLQLVSDDLGELQRQAAEF TPNKDKAAIGENILGLRLLCLY GLKVFNGREDQLDSCYHGNRQ LRGSLRLLFLAFIRQRLRDLIITA HRVIRVNRQHAALGVKHCRLP GITGNRIQRQATQYRDRRGTGQ NQCMRGDMQQLFADIANVAN TFAQIIAGRGRKFGANLLHIAD
25807	56175	B	25948	1	3738	
25808	56176	A	25949	1518	2124	DCFCGSRHDKLPSAHQCSAKPG SDRFWRSHADAAYAHDGGIQP VLCASRSNGCLQKPKCHTIVSG RCPLQQIGS\SVFPSGDAANVAS FSCACDNAGSAQHRTLLLGKQ FFNCRNAFHFNRNSRQTALKSG ISWVTFQLILKQQPRPVIMTKM AIGFRKV*SQRNIIRHLLVYIFKF ADGGCFVVIFLCLQRFIETGINN KMG
25809	56177	C	25950	1	747	
25810	56178	A	25951	168	332	CAWRAVCAAW/PTGASC/CNN DRFVFQILRSFEHDNSEDKPGP GMPPHGWRTQFWGG

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25811	56179	A	25952	1	2706	
25812	56180	A	25953	1	1062	
25813	56181	A	25954	1	855	
25814	56182	C	25955	1	2412	
25815	56183	A	25956	279	713	RCDAAAGAVLHSAGLLRHCGY WQRGKPDRWSRRPGNYADRIC RRWFCAGGVGDRQYELCQLLA YTVSATRRGTGYCLYRDSRGR TGLPVV*HLSGAGLYGRCRFAG VRWCVRHYRRTATSGIPAGDY GGRVRGRNAFCHPAVAP
25816	56184	A	25957	1	769	MDFAETELEFIKFWGDIITNKLN EALAAQGDNVVINLASDEYFKS VKPKKLNAEIIKPVFLDEKNGK FKIISFYAKKARGLMSRFIIENR LTKPEQLTGFNSEGYFFDEDSSS NGELVFKRYEQRAECRIVTRHL SFSGDVCLDHDRRDDHEELSY GGAAVAAVLVIEPNKLAFDGS GYLAWEGLICMQEIGKC/YRRT SGDCA*VAGRAQTG*VSGWAL SRGKNQPGVGCEAGARRHARE ARIGDERHRLAPRDML
25817	56185	B	25958	1	2472	
25818	56186	A	25959	4300	4492	DCGGVRSQRPDQR*DWNR*GA GGESDS*SLATGGQAAEGVAV WRYSARWR*PLFAGRCARAGG D
25819	56187	B	25960	49	3000	
25820	56188	A	25961	266	812	LLRWRPGALALGHKLVAGEIR QQRMDAWRAACLQNPQGILCC ARGGQRSHIVQSWLHAAGIDY PLVEGGYKALRQTAIQATIELA QKPIVLIGGCTGSGKTLLVQQQ ANG/VDLEGLARHRGSAFGRTE DELGKLAQTSTSSPAHWRETSK CGGFLCPIFLTNMRTPLPVCAT VLPYLAIATV
25821	56189	A	25962	761	874	
25822	56190	A	25963	2	304	MAAYGSGIFAQTYIEAFGISTIQ PASCSPVNQYITAAFVLFGNVA HALLIALQRRNRRHLQRRKGA VIVIAFNTSQGA/VPAFCCQP*S RYASPPCCSFSTA
25823	56191	A	25964	109	777	
25824	56192	A	25965	5	187	ITHKKPPPSWRSALLPAAGVFS RRYMPALCE*HWAS*RMRAEA TETFSDCTMPIIGMMMS
25825	56193	A	25966	1	711	
25826	56194	A	25967	757	1026	
25827	56195	A	25968	1	750	

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25828	56196	A	25969	1	1065	MKVLEKRNNASSEPEEKNEIRA AREHAGFTLQELVCLGASGRK VQGEAANAEEEVAAGELDNIA KITNEGSYTEQQIFNEGYMWLS TLMKIKENKISCSWATQSHFQG SIDAGELEHLTPERVWKETESA LTTRNPQVFFQVLRDCGALRVL FPEIDALFGVPAPAKWHPEIDT GIHTLMTLSMAAMLSPQVDVR FATLCHDLGKGLTPPELWPRHH GHGPAGVKLVEQLCQRLRVPN EIRDLARLVAEFHDLIHTFPML NPKTIVKLFDSIDAWRKPQRVE QLALTSEADVRGRTGFESADYP QGRWLREAWEVAQSVPTKAV VEAGFKGVEIREELTRRRIAAG LRG*VSRSHPHLPNAEPKNH/AS NYLIPSMPGVNRSVSSNWR*PA RLTCAAE/HGFESADYPQGRWL REAWEVAQSVPTKAVVEAGFK GVEIREELTRRRIAAGLRGMPT
25829	56197	A	25970	2373	2597	SADDKADSVA*YLRLASA*TNS CRPVRRPSAPVCRRAPAI*G*TP QNYGPPSSCPAGGFWRYPVDPP RFSGFVH
25830	56198	A	25971	2616	2777	TSVRKRFSTLSGKPVAKAGRKR PPPCR*TPTANGHPKPCRPPVW CHPAPVARP
25831	56199	B	25972	1	1449	
25832	56200	A	25973	1076	1477	CAVRRSITWCKLSSKTPVRPLR PSTYRDCLTVSIALTPPASEKVK RRPVPAVKSAMKVPPGAAQSR KRVWLVSPFPTCEFLASNSRGK KISVSLSALSPRWTS*PKARWA ARRLTTNLVVRH*TATSVLMK KK
25833	56201	A	25974	1	3552	
25834	56202	A	25975	196	493	KRCRFADRPGDPGRQGTPAATT FGGMSFVTILPAPIPELSPMVTP GLITT*LPIQTLLPIVIGKEYISPF FLNSWCTGCPVTERVTLGAIST LSPIVTV

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25835	56203	A	25976	1	3917	MTDKHQQHRYVAAPGPFVGD KCQVAGDPLMLRRALSNLLSN ALRYTPTGETIVVRCQTVDHLV QVIVENPGTPIAPEHLPRLFDRF YRVDPSRQRKGEGSGIGLAIVK SIVVAHKGTVAVTSDARGTSGL DDFFIDVVYWVRRIKRKLSVYR RIPRMSYRELYKPDEQPLAIMV PAWNERASSAIWRAGGTTLDT KFLFVGLPGPILGSCKVPFEFLE VACPPSGGPVGPPWRRPCRGA AAAICASPAAIILAPT
25836	56204	A	25977	3	292	GDMQRLNSLFC/SVAYSVLEQP DEDEGRDSINIVNPSGRPIIVSSG ATPAVREYAAHGFHLYGLRQR VGEVRVDLQREQIYASKPCGST IGISLVVR
25837	56205	A	25978	2	181	SARRLR/RSKHRFRILNRRYSHA HS\MLGDMQRLNSLFC/SVAYS VLEQPDEDEGRDSINIVN
25838	56206	A	25979	1	2781	
25839	56207	A	25980	1	2554	
25840	56208	A	25981	635	741	
25841	56209	A	25982	91	501	LWIRLAKRSGKAIKERRDFIFRL CTHRVRQGTALLRLFQHSGGN RLMKLDNQHLRLRISNHRAFHF RHRTTVKQSQQTFRYPWLYRV RHWGQKPKTDNFHGLLARIFG NSRSKTWGENR*EHSVLEQPDE DEGRDEY
25842	56210	A	25983	2153	3062	APVMPPERLPVIAVRQYPTANC CSDCLAAASRFFLASVAAPEQT DADTRRSRVAVGRRKTRSNSA NQPRPRRDWRELQLMDRLARV AQARASFAARETLRIGDAMEQ MMEGLNKVMHGEPRQEKELR KLADDINVLYTAIKLYLARMPK EELAEEESRRWAEIIEMSLNLEQ ASDIVERMG\GELVDKSWAAR RAFSLDGLKELDALYEQLLSNL KLAMSVFFSGDVTSARRLRRSK HRFRILNRRYSHAHVDRLHQQ NVQSIETSSLHLGLLGDMQRLN SLFCSVAYSVLEQPDEDEGRDE
25843	56211	A	25984	135	308	KLSLRLGIFPRPSLFPRPTPSPST PAPAS*PAPS*VSPSPRTATPSCP TSYSSFPCH

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25844	56212	A	25985	3	663	ARGKKPPRRGKEDFWDLSIATR VSVNPIKFPVEA*PFLKP\LQQV S\GPLGGRLPLPIPGNLLLQVAD GTLSLTGTDLEMEMVARVALV QPHEPGATTVPARKFFDICRGL PEGAEIAVQLEGERMLVRSGRS RFSLSTLPAADFPNLDDWQSEV EFTLPQATMKRLIEATQFSMAH QDVRYYLNGMLFETEGEELRT VATDGHRLAVCSMPIGQSLPSH
25845	56213	A	25986	1	1077	
25846	56214	A	25987	1	1323	MHSGTFNPQDFGWQGLTLTPA AAIHIRELEILDEYGIPNAWQGE TNFWGSTAVSIDRLAAYKDVD VLCFDHDNSKDMDALMATPL WQAMPFVRAGRFQRVPAVWF YGATLSAMHFVRVLDNAIGVIV ATALTWMNFSQALPRSQWAQ AAWSPDIDVIEQMIFHYSLLPRL AISLLVGAGLGLDVRYYLNGM LFETEGEELRTVATDGHRLAVC SMPIGQSLPSHSVIVPRKGVIEL MRMLDGGDNPLRVQIGSNNIR AHVGDFIF\TSKLVDGRFPDYRR VLPKNPDKHLEAGCDLLKQAF ARAAILSNEKFRGVRLYVSENQ LKITANNPEQEEAEEILDVTYSG AEMEIGFNVSY\VLDVLNALKC ENVRMMLTDSVSSVQIEDAAS QS\AAYVVMPMRLEGSPPLGNP EFQKISSPCALYIALCSKARHHT GRYLGLCGL
25847	56215	A	25988	211	475	GAIGVFTAGKLTRASVYHQAR RFMQRETVWLVEDEQGIADTL VYMLQQEGFAVEVFERGLPVL DKARKQVPDVMILDVGLPDISG FELCRQLLALHPALPVLFLTAR SEEVDRLLGLEIGADDYVAKPF SPREVCARVRTLLRRVKKFSTP SPVIRIGHFELNEPAAQISWFDT PLALTRYEFIVLKT\LLKSPGRV WSRQQLMDSVWEDAQDTTSH VVAFATILQGISRDLRRRILPYCI RCRRERCTGTALWQ

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25848	56216	A	25989	1661	2499	QMAHDEQWLTPR\LQTAATLC NQNAPRDGSPLWLGVDLGTCD VVSMVVDRDGQPVAVCLDWA DVVRDGIVWDFFGAVTIVRRHF DTLEQQFGRRFSHAATSFPPGT DPRISINVLESAGLEVSHVLDEP TAVADLLQLDNAGVVDIGGGT TGIAIVKKGKVTYSADEATGGH HIFLTFAGNRRISLEEAEQYKRG HGEEIWPAVKPVYEKMADIVA RHIEGQGITDLWLAGGSCMQP GVAELFRKQFPALQVHLPQHSL FMTPLAIASSGREKAEGLYAK
25849	56217	A	25990	915	1518	PSGHAPDLNGAPATAHQPGGR YPAPRSVRRATDNGYPAGDPLE WRSTAQVFVSSRRRVSLPNDRK TVLTRCWSAAH*FALPAPLCRD RTGERKNRRFHTPTRCGRGFCP APAASRRCAGRRRGDASGRAY RRPAPSHCPVQ*RGHRKSTTTSS TSRRRPGQSARPYSGPEYRE*Y CSAQRFFHNDGSRPPVVRQAGR AQFP
25850	56218	A	25991	1	1254	
25851	56219	A	25992	675	835	VRWCWIFPSQ*TLFQKRAGHA APSADVLHESCQHFLNLLNRLG RHYDFGEGEP

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25852	56220	A	25993	1	2255	MRESPTRDDSKNTVNTTIRIRIH NSYTEQLQIVTNSYCTKQWHV HHTAKPYAHIQRPATPDAQLTK MQEEEEVEPEPEMEAEVEPEPN PEEAETESESMNQRDVRGTVRI VLKTFNNCRDTVFVAFEVNNT VSLLVATTDMTSGDTAIVVTTT GFAVFFQQRSKSAANEVQILAF FQGDVSFFPVATTTDTLSVTFN FPFNYQGVNDFDFDFKQFLHSS FDFCFGRVFSNFEYLHGARAHA CIPPSACIGEVLETSSFDIRVSVY RSSCVCVRLRESSTGDRYFGGL SLQMMRKATGLTDITSDTPGNT DDQRWHPEHGLTQRMQKEQE LVKEPEGAARDGDGEAEAWGE VKAKSSGCVGTRASSHLFRCNV CELHFKESSELLQHPCTPSGERP FRCGECQKAFKRPSG\LRQHER THSAERPFKCDLCPMGFKQQY ALMRHRRTHKTEEPFKCGLCE KGFGQPSHLLYHQHVHTLETLF KCPVCQKGFDQSAELLRHKCLP GAAERPFKCPVCNKAYKRASA LQKHQLAHCAAAEKPLRCTLC ERRFFSSSEFVQHRCDPAREKPL KCPDCEKRFKYASDLQRHRRV HTGEKPYKCPNCDKAFKQREH LNKHQGVHAREQQFKCVWCG ERFLDVALLQEHSAQHSAAAA AAEGAYQQTLHHPRRQQQQY WQLLCARNNVKLCMHILFSPH
25853	56221	A	25994	98	596	YSGIIMAQSKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQPRFIVAHQMRQLNELSENIIL EPAGRTTAPTIAPAALAANRHS PESAPLMLVLATDHVIANEDAV RAPVK\NAIPYPKKGKLVTFGIG LDGRVPRYNM
25854	56222	A	25995	3	554	
25855	56223	A	25996	1	222	

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25856	56224	A	25997	1	1043	MKVKVLSLLVPALLVAGAANA AEVYNKDGNKLDLYGKVDGL HYFSDNKDVDGDQTYMRLGFK GETQVTDQLTGYGQWEYQIQG NSAENENNSWTRVAFASLKFQ DVGSFDYGRNYGVVYDVTSW TDVLPEFGGDTYGSDNFMQQR GNGFATYRDTDVFGLVPTRLHP ARVCCALRELKDAGADRIWYI ADAFRAGLSVDGVFNLTNIDR WFLHINRAKDKNHMIISIDAEK AFDKIQQPFMLKTLNKLGIDGT YFRIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISDFSKVSGYKINVQKSQT FLYTNNRQTESQIMSELPFTIAS RRIKYLGIQ*IRY*WDVFQNNK SYL*QTHSQYHTEWAKTGSIPF ENWHKTGMPSLTAPIQHSVGSS GQGNQAGEGNKGYSIRKRGSQI VPVCRRHDCLSRKPHRLSPKSP
25857	56225	A	25998	1	3339	
25858	56226	A	25999	1440	1880	AAQHASVYLYQNRIRGAVPPV RFFHADQRTRRDGADGKQRHA TETLCRIAEKISSSREQDWLHCD ERQSLYEWTW*PYSPHSGRSQK EKRQT*TAILDAYCADCFRCGR GVFARRERRTKRDRPGNAGTG GDCPCWLRRQYECVRL
25859	56227	A	26000	1	2277	
25860	56228	A	26001	1	1845	
25861	56229	A	26002	56	113	QQQPNPTRDQLQLAILHNIRGIR KIYG*IQSATREAG*GHSPQY
25862	56230	C	26003	1	2317	
25863	56231	A	26004	3	2168	
25864	56232	A	26005	670	2541	
25865	56233	A	26006	98	944	YSGIIMAQSKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQHRFIVAEQLRQLNKLTENIIL EPAGRNTAPAIALAALAAKRHS PESDPLMLVLAADHVIADEDAF RAAVRNAMPYAEAGKLVTFGI VPDLPETGYGYIRRGEVSAGEQ DMVAFEVAQFVEKPNLETAQA YVASGEYYWNSGMFLFRAGRY LEELKKYRPDILDACEKAMSAV DPDLNFIRVDEEA/FLACPEESG DYAAMGRTGDAVVPLSLGAH

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25866	56234	A	26007	3	417	
25867	56235	A	26008	507	717	WPEAEYLDNADAVLAMYHD/Q GLPVLKYQGFGRGVNIT/LGLPF IRTSVDHGTALEWRTCKPMVP DSIVSCIL
25868	56236	A	26009	5	378	MAVCSSLSPRRSPAFL/HDFTDV WTHHLVFGVNP*RGLIHGTALT DHVG/ENGNYSSD*IHGTALTD HVGKTETILPTKYANIYSINTSK DRFLTKPAFAEVVLFLHPRELQ TCSFFLSQNMLVKVGHQRHWF TEVDVTLTEITQLA
25869	56237	A	26010	1	469	MQKEYAYWMDGLKTCKPDNR KNALSNFGWYPSQPLLGRSRY ATTESWVEDIATAKSNPNRLPL KFTATCALPLRLAGFQ\PRWMD NPQQLNTLAPPASYRSI*TA*CL K*KNPRPRQQSCRR*RDGNQYE TLANARQKGIEKTCGTINKAG MPITT

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25870	56238	A	26011	2	1854	CGGTLARACDGCLNGEFAA/LI TGPVHKGVINDAGI/PFTGHTEF FEERSQAKK/VVMMLATEELRV ALATT/HLPLRDIADAITPALL/H QPKYLDNADAVLAMY/HDQGL PVLKYQGFGRGV/NITLGLPFIR TSVGHG/TALELAGRGQ/ADVG SFIRPYSAIK*L*NAGASVRWLS ERRICRAITGPVHKGVINDAGIP LPVIPSFSKSVRRRKRCDDAGD RRTSRGAGNDALPLRDIADAIT PALLHNRNILITPTPCWRCTRSG SSRAKIPGLRARCDITLGLPFIRT SVGHGQPLNWRDVANRCWQF YTPLFCHQMIVKPMHNRIPRAT YRGAVKSAIGLGCCCLKASATR CAYRWRRSGRRDQSRFRYFEIA GIRSRGINFIACPTCSRRNLMLS VRLTRWSNAWRYHHSDGRFD YRLRGECPGEALVSTLGVTGG NKKAASMKMGAQRPSGQQDM IDQLEARIRAKASQRTKRVELT FSRLKNNNVEKQDTALFALYQ RRLRCVRKVRRYVMAAVSAGC GGGVCAVSAYMPLNRLPNAQE ANNEYTSFENCIKCTVCTTACR VTLRNNDPKLPYLVKAGLKMK RVTRSPRRYCAAASATHRFNDE RAGKVQGMPDINKLPADRETC STLTCARSRQNQTNPYPANRAA NAYQVVLATKALEKVSMKSP WQHKVSSPAAVRHLPSITQRRT

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25871	56239	A	26012	1	1504	MGIVASASVQAAEIYNKDGNK LDVYGKVKAMHYMSDNASKD GDQSYIRFGFKGETQINDQLTG YGRWEAEFAAWTDMFPEFGG DSSAQTDNFMTKRASGLATYR KTTSSAYRWPELNLQYHRCTS AARAMLLSGRPVMQINERTAV RRQMTVYLRVERIHEIDPLVSL SHSMSVIPIDVERPIAAAPCTPG LWRTKTPLRVPSTYPLRLPGRA RVVCHRTFRLHLCKDWVFMFS GLLIILVPLIVGYLIPLRQQAAL KVINQLLSWMVYLILFFMGISL AFLDNPRPYLADSVPDRQLLAP VNSISRYKTIEWLNYIATELHK GFTPLFRPDTPEEYKPTVRAHSE KKLQYVNEALKDEHWICGQRF TIADAYLFTVLRWAYAVKLNL EGLEHIAAFMQRMAERPEVQD ALSAEGLKGSRHLSAGARRLIL GIIVTFSLILALICVTQPFNPLAQ FIFLMLLWGVALIVRRMPGRFS ALMLIVLSLTVSCRYIWWRYTS TLNWDDPVSLVCGLILLFAETY AWIVLVLGYFQVVWPLNRQPV PLPKDMSLWPSVDIFVPTYNED LNVTPDELKQVLDVAAALKAL RAENISTKVFNSGLGISVFRDNS TRTRFSYASALNLLGLAQQDLD EGKSQIAHGETVRETANMISFC ADAIGIRDDMYLGAGNAYMRE VGAALDDGYKQASGFSEPAMR
25872	56240	A	26013	2903	3024	
25873	56241	A	26014	123	335	
25874	56242	A	26015	2634	2787	
25875	56243	A	26016	1477	2485	NPEQLMVKTQRVVITPGEPAGI GPDLVVQLAQREWPVELVVCA DATLLTNRAAMLGLPLTLRPYS PNSPAQPQTAGTLTLLPVALRA PVTAGQLAVENGHYVVETLAR ACDGCLNGEFAALITGPGWHKG VINDAGIPFTGHTEFFEERSQAK KVVMMLATEELRVGLATTHLP VRDIADAITPALLHEGIAILHHD LRTKFGIGEPRILV\GGLNPHAG EG\GPMGTEEIDTIIPVLNELRA QGMKLNGPLPADTLFQPKYLD NADAVRPMYHDQGLPVLKYQ GFGRGVNITLGLPFIRTSVDRGT ALELAGRGK\ADVGSFITALNL AIKMIVNTQ

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25876	56244	B	26017	1	3432	
25877	56245	A	26018	1385	2536	KSSQSHLITGMLEHVFVKSGDT PSR/LPELMNGAQALANQINT/F VLNDADGAQAIQLGAN/HVWK LNGKPDDRMIED/YAGVMADTI RQHGADGL/VLLPNTRRGKLLA AKL\PDASRTGETH/TVEWQAP AVAITRTATQARQSNSVDLDK ARLVVSVGRGITDSQTLRLYYI RLPPSLMGMRLTVFLLPICGFH RVGPPTLLSVLATNRNRNAKVF AHKNAPKFRSHTASEQWKSSIA HNKGVHPRVTSHTHARHSLME TDIPHNIHSGHASPADITRHRAQ VFNSVPKMASPIGDRVPTLHTQ HNSPANTGKAQSLLTCGPAAES CCRLIPRQMVSLVFRLKARLLLI TTELPKGLVPVATISGTGNFGN TQSANPYRPSENTDLSLS
25878	56246	A	26019	926	1293	LSPNPKEPSCRTRLKKSGFFTRI SAGAEPLMAIPARLSNSLACGA RDSAAKE/GFVVVPVCVAVEA DIAELDDEERDEFMADVGFT\V GVKEVRAWTIPVGATAPQAAG KIHTDFEKGFIRAQT
25879	56247	A	26020	1	1278	
25880	56248	A	26021	678	1526	ERNTNTCEVVPNRKRAYASHD MELSISPVGKGASKGEVNPADD IEVINTELALADLDTCERAIHRV QKKAKGGDKDAKAELAVLEK CL\PQLENAGMLRALDLSAEEK AAIRYLSFLTLKPTMYIANVNE DGFENNPYLDQVREIAAKEGSV VVPVCAAVEADIAELDDEERDE FMQELGLEEPGLNRVIRAGYKL LNLQTYFTAGVKEVRAWTIPV GATAPQAAGKIHTDFEKGFIRA QTISFEDFITYKGEQGAKEAGK MRAEGKDYIVKDGDVMNFLFN
25881	56249	A	26022	1177	1605	
25882	56250	A	26023	1	644	MDNHIALDFLLASECGSVYVY ATTHGRNMAGARALWRATGM TDADFGKPIIAVVNSFTQFVPG HVHLRDLGKLVAEQIEAAGGV AKEFNTIAVDDGIAMGHGGML YSLPSRELIADSVEYMVNAHCA DAMVCISNCDKITPGMLMASL RLNIPVIFVSGGPMEAGKTKLS DQIIKLDLVDAMIQGADPKIN/D YQSRGRRCPNRCFRCKNQAGS
25883	56251	B	26024	1	1944	

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25884	56252	A	26025	1	1488	
25885	56253	A	26026	1	1919	MNKAHFVSNLGATKCCPLSFLP YRWRRVIAFVVAFYFRHLIDLL VVQMHFKLVKGNVDVVFTAQ LIDSTVQLIDSTTTVTQFTHIQT QLMIQRAGTKCRKEDFRHCVGI LEPEWYPIIVVRVVVDVSQFEV RSQSLIFAVGEGITCIYTQFITHA VVRLTVNFHVVAQLSSPDWNR PETLPVRSHVTSITQFEVVTGFQ TEAPSVGVGATVNVSTVAHGC RQVVVEVRVAQATINKDVVRE VSRRVDVGSLAVLIHLTRTVIH VTFSEACSRTDDPLSVVTVNFGI NTDHDAVNILIIVDGAVVAVEV TTEVAYPCAAVISQAMTRVGQ TSTNGVWTISSVNAFQIRTGAA RSLAPPWSLTEKVFCGTTMER MRAALEAIMPFTESSSATQAPY LPCGRECGLAVRQFFGRGEGIE TVAYLFRIIRVVRTRVLSIGGFS RTRISSTPVKIATLRQNRSDCHA AMIADTYRQVTPTDPFSRHPFS RVLRGLFFIIFKDTKAHNGIGMI GGVNRRADYLNLLEKVFGDRV SSPQWQATLKAIVPSYGRKLNG DVAATERELQYTSEVVGLNYD KPQAADNNRQHKVRAARSRRQ NRPDRGSQIADSTAGARCRFQT PTAGDGA*SAASTAAPI/MLNLL EKVFGDRVSSPQWQATLKAIVP SYGRKLNGDVAATERELQYTS EVVGLNYDKPQAADNNRQHK
25886	56254	A	26027	1	2130	
25887	56255	A	26028	1144	1309	PGGSTPMAVEDPDFRSSERVLR FQPAVSVYGPEQPAV*DYAQTS YLRTRPRRSDP
25888	56256	A	26029	1	3546	

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25889	56257	A	26030	1097	3332	TRVLVLDHRLLRCLYATVCAG ASWGMNPVVCSQQIDPQFHTM LMICASEEAQRMQQASEDEFN RALNIAFDNRLGLCKVESARQV FPLTGRYARQFASHRLALVGD AAHTIHPLAGQGVNLGFMDAA ELIAELKRLHRQGKDIGQYIYL RRYERSRKHSAALMLADSFVR TTHALRRSHGGFPRLDDAAAL RFANRRTSCERNDDNTWSRSL YADLKNGTAQNIRAKFVFIGAG GAALKLLQESGIPEAKDYAGFP VGGQFLVSENPDVVNHHLAKV YGKASVGAPPMSVPHIDTRV\L DGKRVVLFGPFATFSTKFLKNG SLWDLMSSTTTSNVMPMMHV GLDNFDLVKYLVSQVMLSEED RFEALKEYYPQAKKEDWRLW QAGQRVQIIKRDAEKGGVLRL GTEVVSDQQGTIAALLGASPGA STAAPIMLNLLEKVFGDRVSSP QWQATLKAIVPSYGRKLNGDV AATERERKTLHVIFNDLRPEQC EAGKSPSRVQLQTWTNGGMLN APLSLRLTLVEKLASMLDPGHL ALTQIAQHLALLQKMDHRQHS AFPELPQQIAALYEWFSARCRW KEKALTQRGLLVQAGDQSEQIF TRWRAGAYNAWSLPGRCFIVL EELRWGAFGDACRLGSPQAVA LLLGDLLEKATQHLAESINAAP TTRHYYHQWFASSTVPTGGEH
25890	56258	A	26031	115	654	HATQTMTPWFLYLIRTADNKL YTGITTDVERRYQQHQSGKGA KALTGGSARSPLIKKALAEQLP GIPIAGGDDFGSVTAGLAR*RF HQRHGPCWSMKAESLQLCRAD CQRRFQPMSFGGHFRHYRLSVC WRYRFIRPEHKTAFTARFPVDN RLGQMVAKPFHLLNATTGNIC GCFNTKRP
25891	56259	A	26032	1	348	
25892	56260	A	26033	1	906	
25893	56261	B	26034	59	910	
25894	56262	A	26035	1	3684	
25895	56263	A	26036	1	2634	

SEQ ID NO:	SEQ ID NO: of pcptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25896	56264	A	26037	1162	3478	LVRFGLLPLAYSARCFSARSED RPKDECETCCIKYPNGRNVLSQ EIHQVFVLNGIQSMSGYVYNLG NELASMQGLVDVVRLSPQGSS AREAFSHSLDLARLAEKRGYH RYWLAEHHNMTGIASAATSVLI GYLAANTTTLHLGSGGVMLPN HSPLVIAEQFGTLNTLYPGRIDL GLGRAPGSDQRTMMALRRHM SGDIDNFPRDVAELVDWFDAR DPILEPTHNGRRLCSTVRHPRM GYTPGVEPTTGPLGQGLANAV GLAIAERTLAAQFNQPDHEIVD HFTYVFMGDGCLMEEGWFTD DTAKRFEAYHWHVIHEIDGHD PQAVKEAILEAQSVKDKPSLIIC RTVIGFGSPNKAGKEEAHGAPL GEEEVALARQKLGWHHPPFEIP KEIYHAWDAREKGEKAQQSW NEKFAAYKKAHPQLAEEFTRR MSGGLPKDWEKTTQKYINELQ ANPAKIATRKASQNTLNAYGP MLPELLGGSADLAPSNLTIWKG SVSLKEDPAGNYIHYGVREFG MTAIANGIAHHGGFVPYTATFL MFVEYARNAARMAALMKARQ IMVYTHDSIGLGEDGPTHQAVE QLASLRLTPNFSTWRPCDQVEA AVGWKLAVERHNGPTALILSR QNLAQVERTPDQVKEIARGGY VLKDSGGKPDIILIATGSEIEITL QAAEKLAGEGRNVRVVSMLASS
25897	56265	A	26038	1	1033	MNKSPKTRDIQEEELEVLLEEE AAGGDEDREKEILIERIQSIKEE KQKGLGLAAGWTADVSSRRPG ASQLPPPPTHPIPQYRGWGPPD QHLLSTLWTNVGSYKSGSFLQL GGWCMNLDMDLNSEESRWLF RRHWDTGGIKPHERKRAVAHL TLSEREEIRAGLSAKMSIRAIAT ALNRSPSTISREVQRNRGRRYY KAVDANNRANRMAKRPKPCLL DQNLPLRKLVLEKLEMKWSPE QISGWLRRTKPRQKTLRISPETI YKTLYFRSREALNHLNIQIHLA RSHWLWPGERYINRNGERGPV TLWTG/TPISDGSRTSVKRALGQ WGEHLSRRNAFFPLCATVV

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25898	56266	A	26039	797	1440	PAMRLTAMRCISMKSRLPASR MQFCATVRWKYRCHREPTLSA QHGAFRSINPTPRNSRGNCWKK REMKWANWPIWCR*KN*RERS LSAICCASRK/TGQFVLPPARYH LRRSHSLRHGRRHTRKGERGTI NIVNGTPIHERSRNIDNRRSLGH WEGDLVSGGVGTVIGVVTGVII FTVINYGLTYIGVNPYWQYIIK GAIIIFAVALDSLKYARKK
25899	56267	A	26040	687	1106	GSLSLTALLPDTAEREEIRAGLS AKMSI/RAIATALNRSPSTISRE/ VQRNRGRRYYKAVDAN/NRAN RMAKRPKPCLLDQ/NLPLRKLV LEKLNIQHLRRSHS/LRHGRRHT RKGERGTIN/IVNGTPIHERSRNI DNSALVTVLR
25900	56268	A	26041	1	2851	MKTLIARHKAGEHIGICSVCSA HPLVIEAALAFDRNSTRKVLIEA TSNQVNQFGGYTGMTPADFRE FVFTIADKVGFARERIILGGDHL GPNCWQQENADAAMEKSVEL AVVIDLWSRAVIGWSMSPRMT AQLACDALQMALWRRKRPRN VIVHTDRGGQYCSADYQAQLK RHNLRGSMSAKGCCYDNACVE SFFHSLKVECIHGEHFISREIMR ATVFNYIECDYNRWRRHSWINS LLSQKRNTQGRIEDGRQH
25901	56269	B	26042	1	1048	
25902	56270	A	26043	323	1290	GTSMNTVGTPLLWGGFAVVVA IMLAIDLLLQGRRGAHAMTMK QAAAWSLVWVTLSLLFNAAF WWYLVQTE\GRAVADPQALAF LTGYLIEKSLAVDNVFVWLML FSYFSVPAALQRRVLVYGVLG AIVLRTIMIFTGSWLISQFDWIL YIFGAFLLFTGVKMALAHEDES GIGDK\RWCAGYA/VHLRMTDT IDNEHFFVRKNGLLYATPLMLV LILVELSDVIFAVDSIPAIFAVTT DPFIVLTSNLFAILGLRAMYFLL AGVTKRFSMLKYGLAGILVFIG IKRLIVNFNLLQTRACLGGGWA FGETLIIKPGEYRMKTAGG
25903	56271	A	26044	28	96	
25904	56272	A	26045	1	777	

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25905	56273	A	26046	77	532	KPSRPEISKGKSVKPAASRRARE CAVQALYSWQLSQNDIADVEY QFLAEQDVKDVDVLYFRELLA GVATNTA\YLDGLMKPYLSRLL EELGQVEKAVLRIALYELSKRS DVPYKVAIKEAIELAKSFGAED SHKFVNGVLDKAAPVIRPNKK
25906	56274	A	26047	3	175	
25907	56275	A	26048	85	440	YSSSSLWAARKRRQMVLSARR FATSDRVCRCVLVWSAGTSRA KSKSTGWLSMASKAIGVSS*TK TPTARRVSSSSLPCGMAIPLPIP VLPIFSRVRIASKTT*GSSLSCFA ARSLMTS
25908	56276	A	26049	80	706	KLIQVAVVIGGGQPLGAFLCHG LAAEGYRFPVVDIQSDK\AANV AQEINAEYGESMAYGFGADAT SEQSVLALSRGVDEIFGRVDLL VYSAGIAKAAFISDFQLGDFDR SLQVNLVGYFLCAREFSRLMIR DGIQGRIIQINSKSGKVGSKHNS GYSAAKFGGVGLTQSLALDLA EYGITVHSLMLGNLLKSPMFQS LLPQ*KTKLGIK
25909	56277	A	26050	741	893	TGCSGKRSLQQRREERRRNPVQ KIRCTV*RVRNGRIRYCSPRAGF YSRYR
25910	56278	A	26051	269	987	
25911	56279	A	26052	1	1268	MDAKCDRSRFPWLWPTKRPRG CFATFVPIGIPYDQTKTHLHTLS LVAKRLADKTICRRLRAAQSDE ELYQIITDTEGTPDEARCEEKQY MVLMIVSGRSGSGKSVALRAL EDMGFYCVDNLPVVLLPDLAR TLADREISAAVSIDVRNMPESPE IFEQAMSNLPDAFSPQLLFLDA DRNTLIRRYSDTRRLHPLSSKN LSLESAIDKESDLLEPLHGFPDY DTVGFSCKRRIDYVCRIKHSRRI RQVVLLNFAKSGAFSTTRGTDD KTRRSLLVTLVAYFLCAR/EFS RM/MIRDGIHVRIIQINSKSGKV GSKHNSGYSAAKFGGVGLTQS LALDLAEYGITVHSLMLGNLLK SPMFQSLLPQYATKLGIKPDQV EQYYIDKVPFKRGCDYQDVLN MLLFYASPKA\SY\CTGQSINVT
25912	56280	A	26053	1	168	LKVFILVIFTLSRE*EHAMFGFL FLC*FAENDGFQLHPCPCKGHE LILFYGCIVFH
25913	56281	A	26054	2	253	

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25914	56282	B	26055	319	3780	
25915	56283	A	26056	513	762	
25916	56284	A	26057	375	550	GVGLCGRSSIRRNM*CK**G*/L SPKIALMACGRRHTRSLFMTSK DLSRMMRLQKEIRL
25917	56285	A	26058	662	1033	EPKRASGCMWPVGAHCHHPLL LLACQQKLGPPSHQASSRS*NIQ TLDRLCMSSWIPQEHSSSQSWH RSCFLNVTRPWSFYSPVGKNR WMGPFWSFSLDALLLFFTLHSY VAWPVEMMALNLLG
25918	56286	B	26059	1	2034	
25919	56287	A	26060	369	515	HAKPPGGLGHCSLCPSHYSCIH G*KGPRYVSVSCSRGWKPEAT KAFMW
25920	56288	A	26061	352	2631	
25921	56289	B	26062	10	351	
25922	56290	A	26063	321	537	EPLDTGRGTSHTRACHGVGYW GRDSVRRYT*CK*RINGYSTPT WHMHEYVTNLHIVHMYPRTYS IIIKKMSD
25923	56291	A	26064	788	912	VHTHLSERTRKCLPPPAPS*WV TCHHGDCCLPTRLRAPQGP
25924	56292	A	26065	1348	1799	
25925	56293	A	26066	606	2219	ATYPSAHYPDHNRGEFLWPSL GLGKELDTFWSSLRVFGSPVSA VSRELVRKFSLGGTVDSTGSLP VCGDISPVSDVA/ACTREPLRFR LQVGDRYITLMDLPGVGESGA RDTEYAALYREQLPRLDLVLW LIKADDRALTVDEHFYHQVIGE VYRHKVLFVISQSDKAEPTSGG GQLSTAQKQNISRKICLLHELFQ PVHPVCAVSVRLQWGLKVMA ERMIKCLPREATSPVVSQLHPSF RTTVVREQARSDFGETVGAVL DSISAFPLIPAPVRAVIQAVRTT VVSFAASVTLLLLPLRSTPVEKS PTCILPASETFPLLVVMLNPVAS LLTLTSPVLDTSCPTHSLSAAQP NLIQLSGNNNISFVVNRAVVTN VLNTMRTACNSQATIQIYNADI ARDFGTRGIFSINSGFSTVYSRRI GHQSPEVTGEAMALTLSSQPSC IDDGLVAVNLDTDGLRIGDARQ KAITAGYPVVDTDDKCRIRRLR RIRHEQCADENSYQAYNYCRP VGRIRHLCRIRQSMPDATLSRLI
25926	56294	A	26067	543	741	

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25927	56295	A	26068	3	373	VYTGLKPRTIDAQYTPINVV/W KFLSLTHHAYSPLLVVINKAKF DGLSPEFQQALVSSAQEAGNY QRKLVAEDQQKIIDGMKEAGV EVITDLDRKAFSDALGNQVRD MFVKDVPQGADLLKAVDE
25928	56296	A	26069	1	1107	MGAFTGKTVLILGGSRGIGAAI VRRFVTDGANVRFTYAGSKDA AKRLAQETGATAVFTDSADRD AVIDVVRKSGA*ILILKRRSISSA FNSRASPKTPIPAFTTRISNAPLL RTTSMTASLSALSVNTAVAPVS CARRLAASFDPA
25929	56297	A	26070	39	254	
25930	56298	A	26071	1432	1845	
25931	56299	A	26072	674	1614	AVIVVAILVSKSTGAWVAFSIR MPSITFSHNSVVAGVASARKDS SPSYGDPLESAIPKLNVKRSRSG LSKSLLTLTSCSTIWINWITGQT PLKPCSVTGSVVPKAWRSPSTL TTMTTR*PFTLPA/LDTFISRPAG CTYANECHAPESATIRNDVAAR PCNCAQCAALDCVSVFVTIRHS CSSVYSAPGILVAALQAGHKPV ALVGGATGLIGDPSFKAAERKL NTEETVQEWVDKIRKQVAPLP DRKNISPADSRLSPDGRYRGYV HPAPPIPDSHLIRHHRCVIYQWR QCLAQFRLNGWAASRSQSICRI GCD
25932	56300	A	26073	1	3476	MSSSCIEEVSVPDDNWYRIANE LLSRAGIAINGSAPADIRVKNPD FFKRVLQEGSLGLGESYMDGW WECDRLDMFFSKVLRAGLENQ LPHHFKDTLRIAGARLFNLQSK KRAWIVGKEHYDLGNDLFSRM LDPFMQYSCAYWKDADNLESA QQAKLKMICEKLQLKPGMRVL DIGCGWGGLAHYMASNYDVS VVGVTISAEQQKMAQERCEGL DVTILLQDYRDLNDQFDRIVSV GMFEHVGPKNYDTYFAVVDR
25933	56301	A	26074	200	1100	
25934	56302	A	26075	1	2061	
25935	56303	A	26076	1	3294	

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25936	56304	A	26077	1	2064	MNYSLKQLKVFVTVAQEKSFS RAGERIGLSQSAVSHSVKELEN HTGVRLLDRTTREVVLTDAGQ QLAFRLERLLDELNNTLRDTGR YGATTERSARYSASLPAPTSGR SEPAALVQNSSSQPSSLKENIM KLRSVTYALFIAGLAAFSTFFLA \AQSIRCGYETSQADSQHSGAK KFNDLLQERPKGELKLKLFPDS TLGNAQAMISGVRGGTID\MEM SGSNYFAGLSPVMNLLDVPFLF RDTAHAHKTLDGKVGDDLKAS LEGKGLKVLAYWENGWRDVT NSRAPVKTPADLKGLKIRTNNS PMNIAAFKVFGA\NPI\PMPFAE VYTGLETRTIDAQEHPINVVWS AKFFEVQKFLSLTHHAYSPLLV VINKAKFDGLSPEFQQALVSSA QEAGNYQRKLVAEDQQKIIDG MKEAGVEVITDLDRKAFSDAL GNQVRDMFVKDVPQGADLLK AVDEPGWAERDIWAFAPAFFY PLFISDFNRVRLEFVGHYQDVC EKPASTTLWLDVGRSSGLDLTY QTLNVKNDLSHFPVPFFDPSDN RTNTLPMVFAGAPDVGLQQAS AIVASWFGSRSGWRGQNFPVL YNQLPDRNAIVFATNDKRPDFL RDHPAVKAPVIEMINHPQNPYV KLLVVFGRDDKDLLQAAKGIA QGNILFRGESVVVNEVKPLLPA GSQPVWSSSASESRCCFYA
25937	56305	A	26078	1	480	LGNTKTVKGWLAQLPAKYHQ RATCMFDRHGLLALLAGRFLA FVRTLLPTMAGISGLPNRRFQFF KAKLR\WLS*PTRIAAALAFMP/ FMDDHHPRLMQTVILQILQRRG TGDRLKIMVERRYAHVGFCRQ LLDAQVFGVFILNPFQHAANQT EVSLATDQRQ
25938	56306	A	26079	1	2184	

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25939	56307	A	26080	1429	2152	NLFREVVFPTHCPVCGSDVERV EGEAVARCTGALICGAQRKESL KHFVSRRAMDVDGMGDKIIDQ LVEKEYVHTPADLFKLTAGKLT GLERMGPKSAQNVVNALEKAK ETTFARFLYALGIREVGEATAA GLAAYFGTLEALEAASIEELQK VPDVGIVVASHVHNF\LPKKAT AMSSASCWRKVFTGLRRSLSTR KRLTARLLVKPWCLRAASGTP LKRASLLMFSGCFSHTSGLAMY
25940	56308	A	26081	1	2448	
25941	56309	A	26082	125	741	AHLNRTRWKVCWIR*RKISPW AKRNTKTVKG\WLAQLPAKYH QRATCMF\DRHGLLALLAGRFL AFVRTLLPTMAGISGLPNRRFQ FFNWLSGLLWVSVVTSFGYAL SMIPFVKRHEDQCRNGVFGKR KGGIAAALILTRLRRRFVSSWK RFRELRRKSSQADDMNVFGILE DFTHQFIGGAFLRADISGAAKM SCLAKAQASSSMH
25942	56310	A	26083	1066	1359	
25943	56311	A	26084	256	952	RLKRCSTGKSMAVIQDIIAALW QHDFAALADPHIVSVVYFVMF ATLFLENGLLPASFLPGDTLLIL AGALIAQGVMNFSGLRIAVLDP RNQVRGGGLSIFKGRWLGNPK TVKG\WLAQLPAKYHQRATCM FDRHGLLALLAGRFLAFVRTLL PTMAGISGLPNRRFQFFNWLSG LLWVSVVTSFGYALSMIPFVKR HEDQVMTFLMILPIALLTAGLL GTLFVVIKKKYCNA
25944	56312	B	26085	1	1290	

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25945	56313	A	26086	1	1839	MRCQNAWWIMQHSSGSERLSS VLLHFRRTNLADSNDRIQYHSL RFFDEDGAQWLVILGDVLNHG PRNALPDGYAPRKVAERLNEV AHKVIAVRGNLRQRVDQMLLI SRAINRLVASNWNRRSAQMRC PISGKNLAWIPVQLPVYWQNN CRRLLMRSHRKHGSGTNLPGE LMAIKLIAIDMDGTLLLPDHTIS PAVKNAIAAARARGVNVVLTT GRPYAGVHNYLKELHMEQPGD YCITYNGALVQKAAD/GYDDY/ RF/LEKLSREVGSHFHALDRTT\ LYTANRDISYY\TVHEFLRCHQ FPLVVCDGGRMTPRAMFLFSSA HILMPLNYHNSHINTLFPVAGT LMVEPTESESKVELDRFIDAML AIRAEIDQVKAGVWPLEDNPLV NAPHIQSELVAEWAHPYSREVA VFPAALVTGGSRGIGRATALLL AQEGYTVAVNYQQNLHAAQE VMNLITQAGGKAFVLQADISDE NQVVAMFTAIDQHDEPLAALV NNAGILFTQCTVENLTAERINR VLSTNVTGYFLCCREAVKRMA LKNGGSGGAIVNVSSVASRLGS PGEYVDYAASKGAIDTLTTGLS LEVAAQGIRVNCVRPGFIYTEM HASGGEAWTRRSR
25946	56314	A	26087	2	1275	VNFSPKSSQIHHALRTVAGRFA VKSIDYFWHDSCNASKRFHIWE SIMLELLFVIGYLVMLMVTGVS LLGIIAALVVATAIMFLGGMLA LMIKLLPWLLLAISVVWVIKAI KAPKVPKYQRYDRWQLAVRRS PLLPDHTISPAVKNAIAAARAR GVNVVLTTGRPYAGVHNYLKE LHMEQPGDYCITYNGAL/VYRK AAGWLAPLAAKLLLKLMDELI GFLEKLSREVGSHFHALDRTTL YTANRDISYYTVHESFVATIPLV FCEAEKMDPNTQFLKVMMIDE PAILDQAIARIPQEVKEKYPVLK APNLQQPHGSSGSSFHREIFFSS RSEDKRRGGLVVSGISLLVVSA GPWVRNANEPLGQLKTWFSLS HTLTLTYTRAPACRLTSTQTEP RARPCLSPLSSEPRDRSLTPRLG QRFIYLAVQ
25947	56315	B	26088	1	1509	
25948	56316	A	26089	1	1323	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25949	56317	B	26090	1	5073	
25950	56318	A	26091	249	531	CWAMRMDSKVGVITPIRMWSA SGPFAMGTLVPTFAAVTDIPTK SVTTCLRQICERWQAPSTR*SRF ASLSQPAPRFTPSPITLALVLLP ARRC
25951	56319	A	26092	3	1038	LVLFGVAETYPVANDFAAGAG AYVRGRYAAGVRAWPTIITRK TMKTLVVALGGNALLQRGEAL TAENQYRNIASAVPALARLARS YRLAIVHGNGPQVGLLALQNL AWKEVEPYPLDVLVAESQGMI GYMLAQSLSAQPQMPPVTTVL TRIEVSPDDPAFLQPEKFIGPVY QPEEQEALEAAYGWQMKRDG KYLRRVVASPQPRKILDSEAIEL LLKEGHVVICSGGGGVPVTND GAGSESVIHKDLAAALLAEQIN ADGLVILTDADAVYENWGTPQ QRAIRHATPDELAPFAKADGSM GPNVTAVSGYVRSPVQMHHRQ FQPVIIHIATNQIDHHRRIIHHWL
25952	56320	A	26093	1	3639	MKRLIVGISGASGAIYGVRLLQ VLRDVTDIETHLVMSQAARQT LSLETDFSLREVQALADVTHDA RDIAASISSGSFQTLGMVILPCSI KTLSGIVHSYTDGLLTRAADVV LKERRPLVLCVRETPLHLGHLR LMTQAAEIGGNTGEIDEEELES LLYAIAKGNVFNFQTILHLPVA VQNDTIDFYQMFARIWSSHPQ WLTLYLAQHRAVIIPDDAKLHR NLLRWYSAGRLDIPELLDYAQS WRETEPDNEDAPY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
25953	56321	A	26094	1	1260	AWARQDRRLSVKQWGKPPVD ETIPAKEQVRILRKLFDRYYGE VAGRGDGFCSPHVARYVGRVA G*RPCRLGPGHPTNRTPFVAPL LEALDIAKYFSVVIGGDDVQNK KPHPDPLLLVAERMGIAPQQML FVGDSRNDIQAAKAAGCPSVG LTYGYNYGEAIDLSQPDVIYQSI NDLLPALGLPIAKIRNRKMTKPI VFSGAQPSGELTIGNYMGCTEA DRQFAFNFNNFVLIQLLTNGGP DRLGTTTPAGYTDLLVNYTYRI AFEGGGGQDFGLAAAIATLIFL LVAIMFPLLMVVAISLRQGNFA TGSLIPEQISWDHWKLALGFSV EQADGRITPPPFPVLLWLWNSV KVAGISAIGIVALSTTCAYAFAR MRFPGKATLLKGMLIFQMFPA VLSLVALYALFAPRVRAALCY
25954	56322	A	26095	1	3240	
25955	56323	A	26096	494	792	ATRLRHGVTSVGGDGGLQLTV MDKLDVILLMSV/NPGFGGQSFI PQTLDKL/REVRRRIDESGFDIR L/EVDGGVKVNNIGEIAA/AGA DMFVAGSAIFDQPDAR
25956	56324	A	26097	1624	2390	RTSERRWHAKALLKLFSAHHA GFVCCKEEEERLATGKVGWLP VETLLAQQHIEGHYQVDPSLFK PNADCPVRVSGMSMKDIGIMD GDLLAVHKTQDVRNDPLLVPL FTLIREGKLAANWPLEQDELLT RLQKSCDMTQVSADYNALFIG DECAVPPYRSAWVEGATEAEV RAFLSERGMPLADTPADHIGTL LLAASWLEDQSTEDESEALETL FKRGA/LPKSLCLWGKAPAPHG SPVGGFSKGPKTWAPHEGAS
25957	56325	B	26098	1	534	
25958	56326	A	26099	67	399	

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25959	56327	A	26100	8	1016	PESRRKAVMTQPVLDIQQLHLS FPGFNGDVHALNNVSLQINRGE IVGLVGESGSGKSVTAMLIMRL LPTGSYCVHRGQISLLGEDVLN AREKQLRQWRG/ARVAMIFQEP MTALNPTRRIALQMMDVIRHH QPISRREARAKAIDLLEEMQIPD AVEVMSRYPFELSGGMRQRVM IALAFSCEPQLIIADEPTTALDVT VQLQVLRLLKHKARASGTAVL FISHDMAVVSQLCDSVYVMYA GSVIESGVTADVIHHPRHPYTIG LLQCAPEHGVPRQLLPAIPGTV PNLTHLPDGCAFRDRCYAAGA QCENVPALTACGDNNQR\GAC WYPQQEVISV
25960	56328	A	26101	3	102	ISRLNTQQHFG*RTRQISPHSPQ GCSRCPLHS
25961	56329	A	26102	290	490	SSLNSCMAVWDKTRLIRQ*LV MWSY*SPSPCR*PAGYRHMKL RSTSLVLSTPSRLFLAVIPPVVVI
25962	56330	A	26103	1	3255	
25963	56331	A	26104	119	634	
25964	56332	A	26105	1640	1770	HLDSNRRVHDSTCNWCCNLS* QRLLWSG*WSELCCSVPRQKR A

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25965	56333	A	26106	281	2108	RESLKQKVGGRPQLSPFPPPDS WALDPGGGRARETPRGVSNAT KEPISVAQHGN/GGDKEIRRELK YYAHLGRRLKDWSGIPRYHGT VETDCGTGYVYDVIADFDGKP SITLTEFAEQCRYEEDIAQLRQL LKQLKRYLQDNRIVTMSLKPQ NILCHRISESEVIPVVCDNIGEST LIPLATWSKWCCLRKQERLWK RFIAQPALAIALQKDLQPQATE ASGAENMASIASGNIARTDPDM LSIPLSKKIICCFGDRIIEIPETIDQ PVRFWVLTGPVVDMGIYACYL SSPQWGWYAERDAEIENETVR REVEELRQASETDLQPGTIEYE RHRLTRAQADAQELKNARDSA EVVETAFCTFVLSRIAGEIASIL DGIPLSVQRRFPELENRHVDFL KRDIIKAMNKAAALDELIPGLL SEYNRADRQYAGGSRVAARFA ASPRVAVLSVITGLIPRHVCAPY LLCGDPCCLSTPEDMTPRFRRY AVRSGNRSTPGLDHRCDACQR SAYELADLRCRPPPSTLFLLPEA DKNDFSDALPAVADAMYAAPP RRKAAPSKPEKAVVSPLRSVRK ARHGSVCSLRPDQYAVRNLPA YRSCSSPDLQFMVWCALA
25966	56334	A	26107	1	2880	
25967	56335	B	26108	61	5101	
25968	56336	A	26109	80	561	IRPLPPRFKTESRSLPGPCLQPGT FLWSRNRRVLGFPSMNGEDMG LLFLCSEWERSSEGWLCNREGG SGHSIEPHCCTFLHLTHRSLAFS LLAGVSCTCASSCKCKE\CKCTS CKKSECGAISRNLGLWLKVGR EPKAVPEVRASGEPAFLCPCRL SLPV
25969	56337	A	26110	1	277	
25970	56338	A	26111	902	1006	
25971	56339	A	26112	2	1265	
25972	56340	A	26113	409	525	
25973	56341	A	26114	91	431	NHKPGNIDVARRIQRGFAGDQI GHLRPVERQCSPDKRRFIAADG REIRGKQRAGHIFQLLSRCLLQI LNHCQRRAAHFRFQLSNQRHQ QLLPV/HYHAAEREYPAGACLV RWLL
25974	56342	A	26115	3	71	
25975	56343	A	26116	1	1212	

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25976	56344	A	26117	1	2786	MAAVIEQIRRAVLALVTGVVHP GDIPVVWDIVWNATAAFIAVIII SLLLDESGFFEWAALHVLRWG YGPGRLPFNRIGLIRRITRRIRQR LLFGLVTFILLLNRSQNPAQDIQ LLAFRARTGKQTAQFIHHLPRM VFTDKTGSSNGLAPQGQCSAQ GELILNEKLAKQLVTAANWVK MQSDEGEINPVDILRWPGVMA AQEQDLDAIAAEILAALDGTLD DFIVARETEGQSGLKRVYHSPG APDIREFTRDAIP
25977	56345	A	26118	5	402	EIFSVVWIIMTRGDVVTISRWR VSSSPLETWNKRWAKISPAPFS LLPISRLEKSEGDWLPETVISAF NMPSSLSLIISSL*FKVRDV*HFF /RI*TLRGHYRVINWPNFNIVVS QGIGKRLANSWLVFTLFHRI
25978	56346	A	26119	48	219	PETCGHLWAYVWPSCAAV\GL YFKVHVLG*RSVTPVTDIVKLL EFTRLRLPGYTKSIE
25979	56347	A	26120	1	912	

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25980	56348	A	26121	1	1857	MRVCARACVRTRTRMCVYAH TCVCVRTYAYVRVRVRVHVRA RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DVSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALEHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLLAFLCSTSPGF GDPDGLGVIAYQDTVRPNAAT AISELNALAVKGVILTGDNPRA AAAIAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMGSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTLDDRVVAGSAGRYGGDGA GDSECVKIVAQEIRQTDRNIER DRSPRPSGERVRVRGKGGIEAN QPLSTAFTNQITIRQSIRLFSNQF VFHKGISRVVAGSSAIISNVSPG CILRTPNCRRGFPISCTGEGKAA YGWQRDGGHAEYLLAEEKDLI LLPDALSYEDGAFISCGVGTAY EGILRGEVSGSDNVLVVGLGPV GMMAMMLAKGRGAKRIIGVD MLPERLAMAKQLGVMDHGY*I LPDVY/V*IGVARVSWMNGRID SELRTRVRAYAHTRTRARTCTR TRTRTYAYVRTHTHVCAYTHM RVRVRTHARAHTR
25981	56349	A	26122	3	1180	SKLGTRRSVVWA*SPSTSPTLW CSTFSAAGHSSMKRMNEFVDL LPAQQRMKGENWYRGTADAV TQNLDIIRRYKAEYVVILAGDHI YKQDYSRMLIDHVEKGARCTV ACMPVPIEEASAFGVMAVDEN DKIIEFVEKPANPPSMPNDPSKS LASMGIYVFDADYLYELLEEDD RDENSSHDFGKDLIPKITEAGLA YAHPFPLSCVQSDPDAEPYLAR CGYAGNFMESEPRSGLIRVSCM PAGPPLPLPAARSEAPKAAGTV ASVPSIAPARLRPVPDPVELVLV AAEFITPGDPTPRLHGSGFIDIR QIHHQTRSHLEGVKTGIRFLNH FSGNPQGGIAHVNGVARFQVK QCHQAWGQQYAARLRFQARGI SLQIAIHRVDIIHRFDVRQL
25982	56350	A	26123	16	543	
25983	56351	A	26124	1	3387	